Table of contents

1 Introduction
- Important notes for operation . . . Page 4
- The most important functions of your new video recorder . . . Page 5
- Important information for customers in Great Britain . . . Page 6

2 Connecting the video recorder
- Preparing the remote control for operation . . . Page 7
- Connecting to a TV set with a scart socket . . . Page 7
- Connecting to a TV set without a scart socket . . . Page 8
- Connecting additional devices . . . Page 9

3 Initial installation
- Setting TV channels, date and time for the first time . . . Page 10
- Searching for a TV channel manually . . . Page 11
- Allocating decoder . . . Page 12
- Using a satellite receiver . . . Page 13
- Searching for a TV channel automatically . . . Page 14
- Sorting and clearing of TV channels manually . . . Page 15
- Sorting TV channels automatically (Follow TV) . . . Page 16
- Changing the time and date . . . Page 17

4 Settings
- General information . . . Page 18
- Navigation in the main menu . . . Page 18

5 Operating instructions
- Playing cassettes . . . Page 19
- Playing back NTSC cassettes . . . Page 19
- Displaying tape position . . . Page 20
- Display / reset tape position . . . Page 21
- Searching for tape position with picture (picture search) . . . Page 21
- Searching for tape position without picture (forward wind and rewind) . . . Page 21
- Searching automatically for tape position (index search) . . . Page 22
- Still picture / slow motion . . . Page 22
- Skipping commercials . . . Page 23
- Selecting picture setting . . . Page 24

6 Playback
- Optimizing tracking . . . Page 25
- Optimizing still picture . . . Page 25
- Cleaning video heads . . . Page 26

7 Removing picture interference
- Starting and stopping of recording manually . . . Page 27
- Starting recording manually and stopping automatically . . . Page 28
- Lining up manual recordings . . . Page 29
- Selecting the recording speed . . . Page 29
- Activate / deactivate direct recording . . . Page 30
- Making a direct recording . . . Page 31
- Recording automatically from a satellite receiver . . . Page 32

8 Manual recording
- Programming timer with VIDEO Plus+ . . . Page 33
- Problem solving (VIDEO Plus-Programming) . . . Page 35
- Programming timer without VIDEO Plus+ . . . Page 36
- Problem solving (Timer programming) . . . Page 38

9 Programmed recordings
- Delete / check / change programmed recordings . . . Page 39
- Using NexTView Link . . . Page 39

10 Other functions
- Adjusting automatic switch-off . . . Page 40
- Adjusting the child lock . . . Page 40
- Replaying cassette continuously . . . Page 41
- Changing the TV system . . . Page 42
- Adjusting the OSD information . . . Page 43
- Audio recording . . . Page 43
- Audio dubbing . . . Page 44
- Selecting the sound channel . . . Page 46
- Manual mute . . . Page 46
- Demonstration mode . . . Page 47
- Energy-saving mode . . . Page 47
- Adapting remote control . . . Page 48
- Activate / Deactivate "Smart Clock" . . . Page 48
- Using the TV remote control . . . Page 49

11 Suppressing interference
- Optimizing the modulator . . . Page 50
- Switching the modulator on / off . . . Page 51

12 Before you call an engineer
- Problem solving . . . Page 52
- Technical data . . . Page 52

VR 708A/07

Operating instructions

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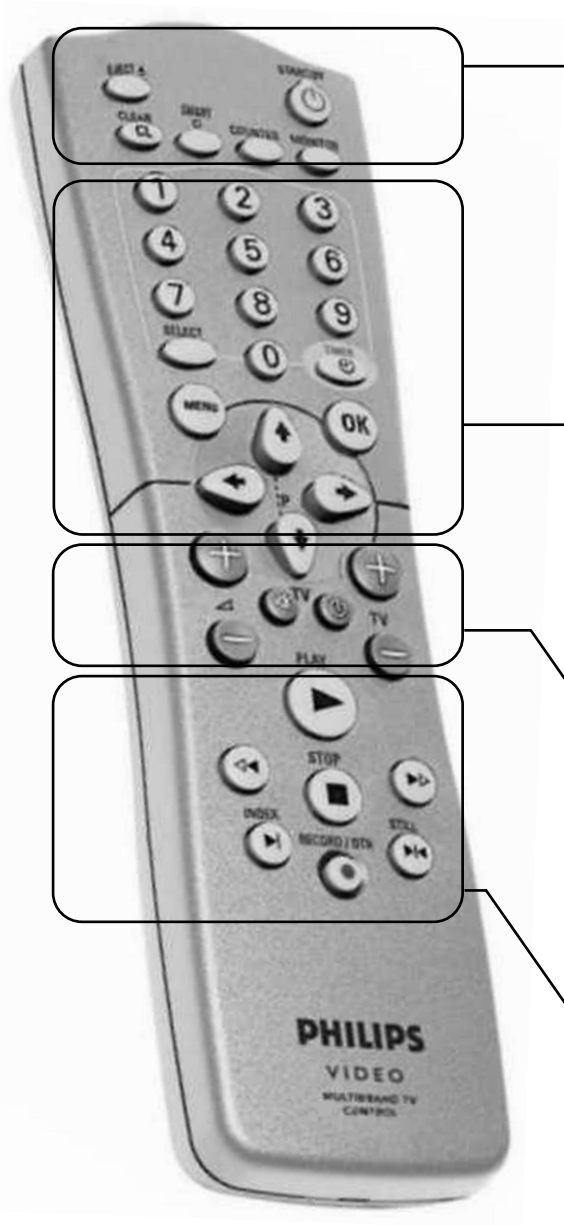
Remote control

You will find explanations for the controls and the displays on your video recorder on the second to last page of these operating instructions.

TIP



EJECT ⏏	➤ Eject inserted cassette
STANDBY/ON ⏻	➤ Switch set on / off
	➤ Interrupt function
	➤ Interrupt programmed recording
CLEAR/CL	➤ Delete TV channel / entry
SMART ▢	➤ select picture adjustment
COUNTER	➤ Display picture position
MONITOR	➤ Toggle between TV reception and video recorder reception

0-9	➤ Enter data
	➤ Select programme number
TURBO TIMER	➤ Programme Turbo Timer recordings
TIMER ⏻	➤ Programme recordings
	➤ Check / change recordings
	➤ Delete recordings
MENU	➤ Switch main menu on / off
SELECT	➤ Select function
OK	➤ Store
	➤ Confirm
↑ P+ / ↓ P-	➤ Select next / previous menu point
	➤ Select next / previous programme number
← / →	➤ Select entry field

TV functions

+ ◿ -	➤ Increase / reduce TV volume
🔇 / TV	➤ Switch sound on / off
TV / ⏻	➤ Switch TV on / off
+ TV -	➤ Select next / previous programme number

◁◀	➤ In STOP or STANDBY mode: Rewind
	➤ In playback mode: Fast reverse
PLAY ▶	➤ Play back recorded cassette
▶▷	➤ In STOP or STANDBY mode: Wind forward
	➤ In playback mode: Fast forward
STOP ■	➤ Stop tape
RECORD/OTR ●	➤ Start manual recording
INDEX ▶|	➤ With ◁◀ or ▶▷: Search for index marking
STILL ▶|◀	➤ Stop tape and show still picture

Accessories

- ✔ Operating instructions
- ✔ Quick Start Guide
- ✔ Remote control
- ✔ Batteries
- ✔ Aerial cable
- ✔ Mains cable
- ✔ Scart cable

1 Introduction

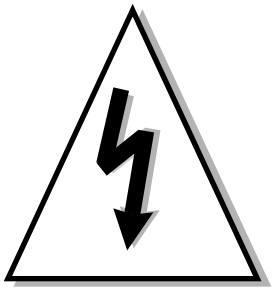
Welcome to the family of owners of Philips VHS video recorders.

Thank you for choosing to buy our product. Please wait at least three hours after transporting the appliance before starting installation. The set needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).

Your Philips Team hopes that you will enjoy using your new video recorder!

This product complies with the requirements of Directive 73/23/EEC + 89/336/EEC + 93/68 EEC.

Important notes for operation



You should not under any circumstances open the set yourself. You would expose yourself to the risk of an electric shock from the hazardous high voltage inside.

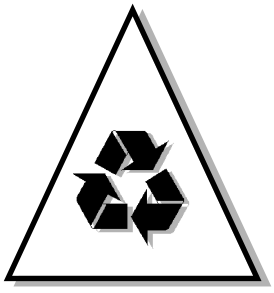
When the appliance is connected to the power supply, there are some components which are constantly operational. To switch off the video recorder completely, you must disconnect it from the power supply.

The video recorder does not contain any components that can be repaired by the customer.

Make sure that air can circulate freely through the ventilation slots on the video recorder.

Make sure that no objects or liquids enter the video recorder. If liquid is spilt into it, disconnect the video recorder immediately from the power supply and call the After Sales Service for advice.

The video recorder should not be used immediately after transportation from a cold to a hot area or vice versa, or in conditions of extreme humidity.



These operating instructions have been printed on non-polluting paper.

Please deposit old batteries at the relevant collection points.

Please make use of the facilities available in your country for disposing of the video recorder packaging in a way that helps to protect the environment.

This electronic device contains many materials which can be recycled. Please enquire about the possibilities for recycling your old set.

The most important functions of your new video recorder

Your Philips video recorder can be used, not only for recording and playing back VHS cassettes, but it also has a whole range of special functions which will make day-to-day use of your new video recorder easier for you.

Plug in and off you go - getting started with your new video recorder just couldn't be simpler. Once you have connected the cables, you will immediately see text on the screen which will assist you at all stages of operation.

The function "Smart Picture" gives you the option of activating pre-defined picture settings quickly and easily at the touch of a button.

Using the enclosed multi-code remote control you can, if you wish, control the main functions of your TV set - even if your TV is not made by Philips.

The simple programming system for video recorders revolutionized the video world when it was introduced. Instead of having to enter many different details (date, starting time, finish time, programme), which was often tiresome and liable to errors, all you have to do is enter a number, up to nine digits long, which can be found in any TV programme listing. Once you have done that, all the relevant details for the recording are stored.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.

Recordings can be controlled, not only by the video recorder itself but also by a connected satellite receiver. In this way the programme from various TV stations can be recorded one after another without the need to set the corresponding channels on the satellite receiver manually. Requirement: Your satellite receiver must support this function.

So that you can identify your machine in the event of theft, enter the serial number (PROD. NO) here. You will find it on the type plate on the back of the set.

MODEL NO.	VR 708A/07	PHILIPS
PROD. NO.	.....	

If you have any problems using the video recorder, please read the corresponding chapters in this instruction manual. If you have any questions, there is also a customer support service available in your country. You can find the telephone number in the guarantee information enclosed in the packaging. Please have your model number (MODEL NO.) and production number (PROD. NO.) ready.

Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:

1. Take off the fuse cover and remove the old fuse

2. Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard

3. Close the fuse cover

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

If your new plug uses a built-in fuse, this should be a 3A fuse.

If your new plug does not contain a built-in fuse, please do not use any fuses in your fusebox with a rating of more than 5A.

Please destroy the old, cut-off plug so that it cannot be used elsewhere.

4. Connect the blue cable (neutral "N") to the terminal in the plug which is marked with the letter "N" or coloured black

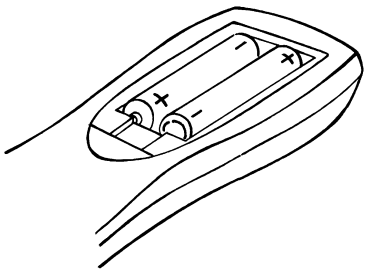
5. Connect the brown cable (live, "L") to the terminal in the plug which is marked with the letter "L" or coloured red

6. Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter "E", the symbol " ⏚ " or coloured green or green / yellow

Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

2 Connecting the video recorder

Preparing the remote control for operation

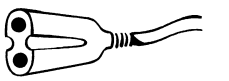


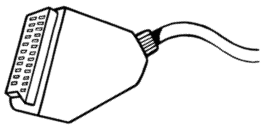
1. Take the remote control of the video recorder and the enclosed batteries (2 batteries)

2. Open the battery compartment, insert the batteries as shown and then close the battery compartment. The remote control is now ready to use

Connecting to a TV set with a scart socket

Aerial cable


Mains cable

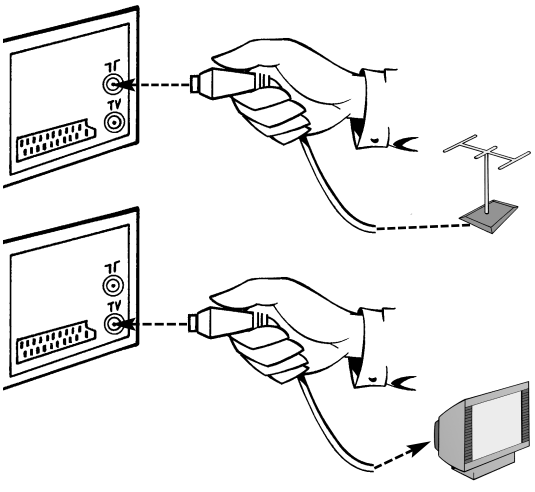

Scart cable

1. Have the following cables ready: An aerial cable (enclosed), a mains cable (enclosed) and a scart cable (enclosed)

What is a scart cable?

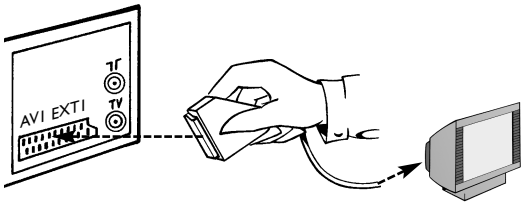
The scart or Euro-AV cable serves as the universal recording and playback connector for picture-, sound- and control signals. With this type of connection, there is practically no loss of quality during the signal transfer. We recommend that you use a scart cable when using this video recorder.

2. Switch off your TV set

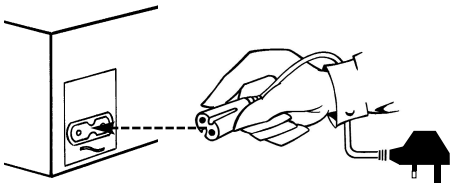


3. Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket ⊓ on the back of the video recorder

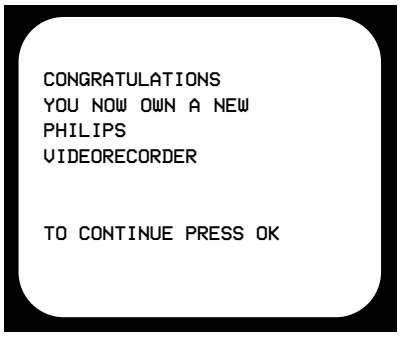
4. Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket TV on the back of the video recorder



5 Take a scart cable and connect one end to the scart socket on the back of your TV set and the other to the scart socket **AVI EXTI** on the back of the video recorder



6 Take the enclosed mains cable and connect the appropriate end to the mains socket ~ on the back of the video recorder and the other to the nearest free socket



7 Your set should automatically switch over to the programme number allocated to video recorder operation (usually: EXT, 0 or AV). You will see the welcome screen.

✘ **I can not see the welcome screen, only the message "EASYLINK IS LOADING DATA FROM TV"**

✔ Congratulations! The TV set supports the "Easylink" function. It automatically sends the settings for the available TV channels and the time and date information straight to the video recorder. As soon as the transfer is complete, the current settings for year, month, date and time appear on the screen. Correct and/or confirm the settings with the arrow buttons ↑, ↓, ← and/or → the number buttons **0-9** and confirm with **OK**.

✘ **My screen is still blank**

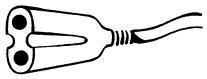
✔ If a TV set receives a signal via the scart socket, it usually switches automatically to the corresponding programme number. This automatic function might be adversely affected. Please switch manually to the corresponding programme number (usually: EXT, 0 or AV)

✔ Check the cable connections

8 You can find more details in the chapter "Initial Installation"

Connecting to a TV set without a scart socket

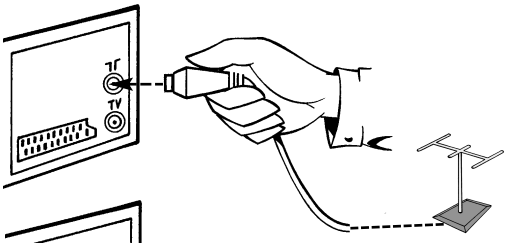
Aerial cable



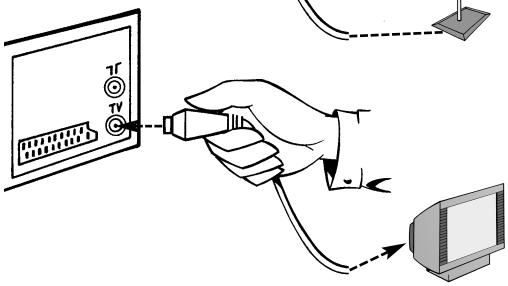
Mains cable

1 Have the following cables (provided with your new video recorder) ready: An aerial cable and a mains cable

2 Switch off your TV set

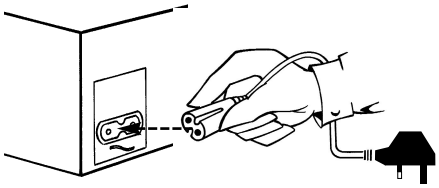


3 Remove the aerial cable plug from the back of your TV set and insert it into the aerial socket ⊓ on the back of the video recorder

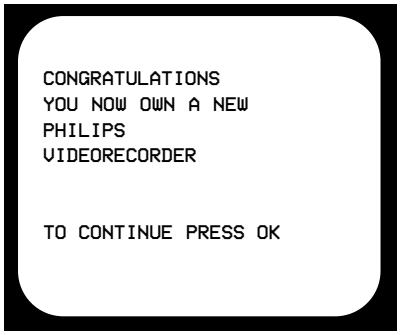


4 Take the enclosed aerial cable and connect the appropriate end to the aerial socket of your TV set and to the TV socket TV on the back of the video recorder

5 Take the enclosed mains cable and connect the appropriate ends to the mains socket ~ on the back of the video recorder and the other to the nearest free socket



6 Switch on your TV set and select <u>on your TV set</u> the programme number which will in future be used for operation with the video recorder. If necessary, you should refer to the instructions for your TV set for assistance.



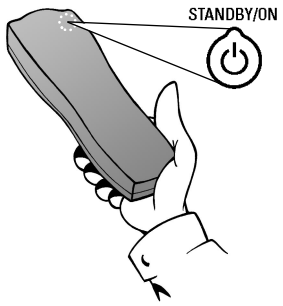
7 Change the settings of this programme number on your TV set until you see the adjacent welcome screen clearly and in colour on the screen

✘ **There is no test image**

✔ Your video recorder "broadcasts" on the frequency 583MHz (CH35) in the UHF range (ultra highfrequency). Repeat the matching of the selected programme numbers on the TV set.

✔ Check the cable connections

PROBLEM

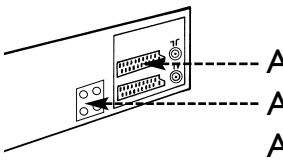


8 You can find more details in the chapter "Initial Installation"

Connecting additional devices

Additional devices, such as a decoder, camcorder, satellite receiver, etc., can be connected to the scart socket **AV2 EXT2** on the back of the video recorder. You will need a scart cable for this (available from specialist stores).

There are two audio output sockets - **AUX OUT L R** - and two input sockets - **AUX IN L R** -on the back of the video recorder . You can connect a stereo system to these.



3 Initial installation

Setting TV channels, date and time for the first time

If your TV set supports the Easylink function and you have already corrected and/or confirmed the settings for year, month, date and time, you can skip this section. Your video recorder has already stored all the necessary details. Please continue by reading the section "Searching for a TV channel manually".

1 Using the **OK** button activate the automatic initial installation

"Aim" correctly

Always point the remote control at the video recorder and not at the TV set.

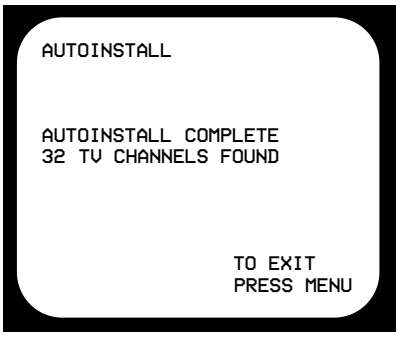
TIP

2 The set seeks out and stores all available TV channels as well as time and date. This procedure may take several minutes

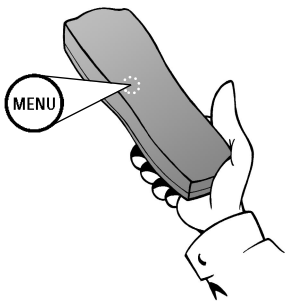
The Teletext clock resets automatically

If a TV channel which has Teletext is stored as programme number P01, the video recorder automatically takes in the date and time from the text function. The change from summer to winter time and vice versa should also occur automatically.

TIP



3 The initial setting of channel, date and time is completed.

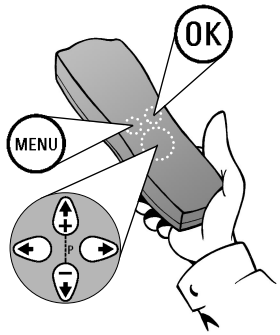


✘ **The time is not shown in the display of the video recorder ("-:-") or is shown incorrectly**

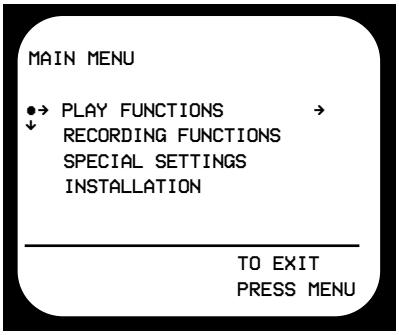
✔ While initial installation was going on, the set was unable to recognise the time. Please read the paragraph in Section 4 "Setting the time and date" to correct this problem

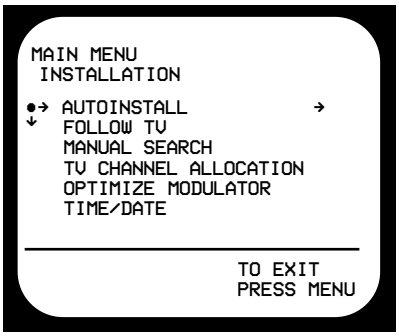
PROBLEM

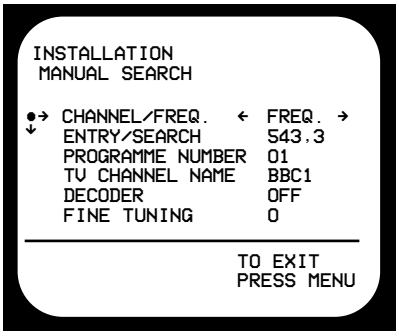
Searching for a TV channel manually

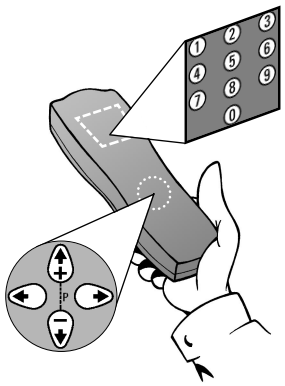


In exceptional cases, it may happen that on initial installation the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually. If your set supports the Easylink function, you can start the automatic transfer of channel data by means of the following steps.









1. Switch on the TV set and - if necessary - select the programme number set for video recorder operation

2. Press the **MENU** button on the remote control. The on-screen menu appears

3. Use **P-** or **P+** to select the option "INSTALLATION" and confirm with button →

4. Use **P-** or **P+** to select the option "MANUAL SEARCH" (manual channel search) and confirm with button →

5. Use **P-** or **P+** to select the option "CHANNEL/FREQ." and use → or ← to select the type of display desired

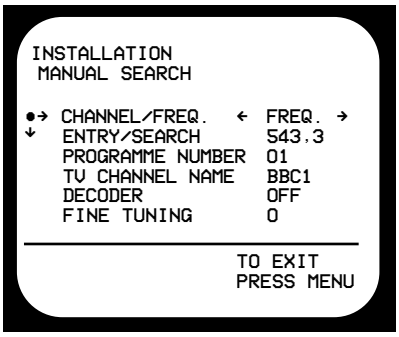
What is hidden behind the settings?

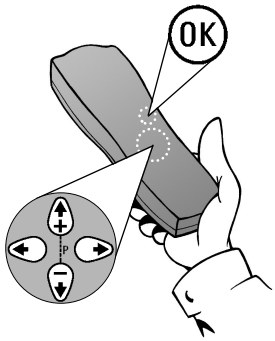
"FREQ.":	The frequency display
"CH" :	The channel display
"S-CH" :	Entering a special channel

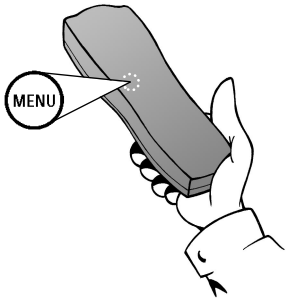
What is a channel, or a special channel?

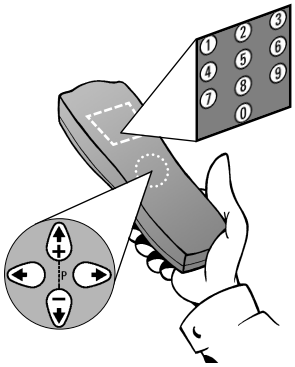
TV channels are transmitted on precisely-defined frequency ranges. These ranges are also referred to as "channels". Each channel has its own TV station allocated to it. Most cable and satellite TV providers supply tables of channel allocations. Special channels (hyperband channels) are transmitted on special frequencies.

6. If you already know the frequency or the channel of the TV station you are searching for, use **P-** or **P+** to select the option "ENTRY/SEARCH" and enter the frequency or the channel with the number buttons **0-9**









✘ **I don't know the channels for my TV stations**

✔ No problem. Hold down the button → to start the automatic channel search. A changing channel number will appear on-screen. Continue the automatic channel search until you have found the desired TV station

7 Use **↓P-** or **↑P+** to select the option "PROGRAMME NUMBER" and use → or ← to select the programme position where you wish to store the TV station you have found

✘ **I cannot find the TV channels from my satellite receiver**

✔ These programs do not have to be stored as actual TV channels. On your video recorder, select programm number "EE". Individual TV channels must be selected on the actual satellite receiver itself

8 Store the TV channel you have found with the button **OK**. The screen will show "STORED"

9 Finish manual sorting of TV channels by pressing the **MENU** button or return to step **6** to allocate additional TV channels

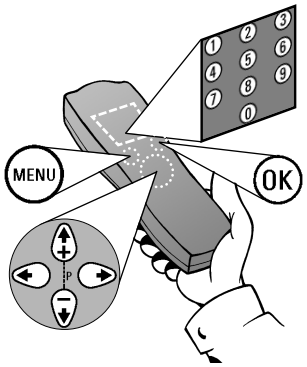
Allocating decoder

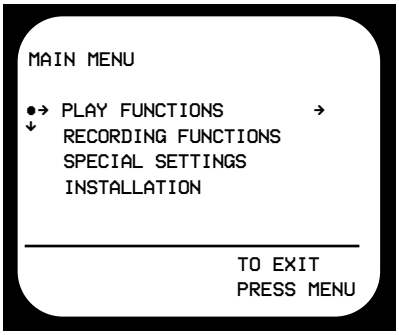
If your TV set supports the Easylink function you must allocate the decoder directly to the TV set. If necessary, you should refer to the instructions for your TV set for assistance. If your TV set does not-support the Easylink function you must allocate the decoder on the video recorder.

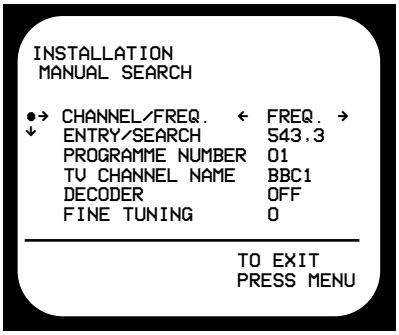
1 Use **↓P-** and **↑P+** or the number keys **0-9** to select the TV channel, which will in future be automatically decoded by your decoder

What is a decoder?

Like a deciphering machine, a decoder (available in TV and video stores) deciphers the TV channels for which additional charges must be paid. Without the appropriate decoder, you will receive these TV channels distorted.







2 Press the **MENU** button. The on-screen menu appears

3 Use **P-** or **P+** to select the option "INSTALLATION" and confirm with button →

4 Use **P-** or **P+** to select the option "MANUAL SEARCH" (manual channel search) and confirm with button →

5 Use **P-** or **P+** to select the option "DECODER" and use → or ← to select the setting "ON" (Decoder activated) or "OFF" (Decoder deactivated)

6 Confirm with **OK** (screen will show "STORED") and leave the on-screen menu with the **MENU** button

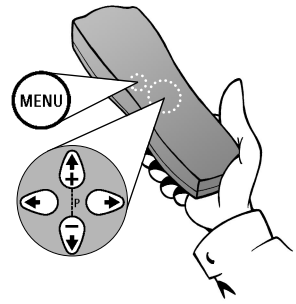
Check decoder allocation at a glance

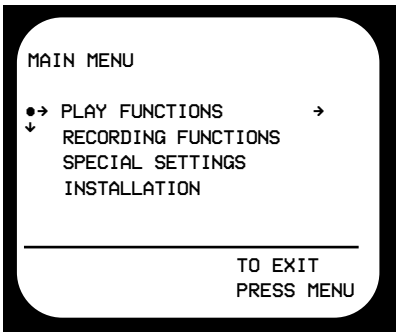
There is no need to call up the on-screen menu to check to which TV channel on the video recorder a decoder is allocated. Simply use **P-** and **P+** to select a TV channel. If "DEC" appears in the display, a decoder is allocated to this channel.

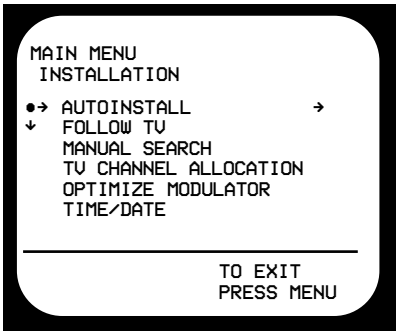
Using a satellite receiver

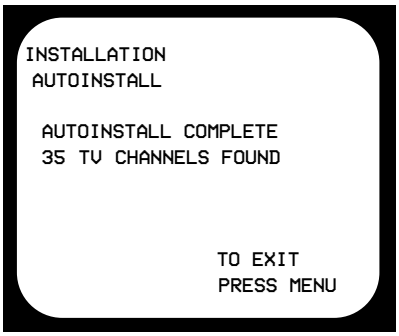
Those TV channels which are received via a satellite receiver connected (to the scart socket **AV2 EXT2**) can be viewed on the video recorder on programme number "EE". On the remote control press the number button **0** and then the button **P-** to select this programme number. The TV channels of the satellite receiver are selected not on the video recorder itself, but directly on the satellite receiver.

4 Settings









Searching for a TV channel automatically

On initial installation, the video recorder performs an automatic channel search. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the video recorder, e.g. after moving house, you can start this procedure again. The video recorder finds all the available TV channels and stores the new settings. If your set supports the Easylink function, you can start the automatic transfer of channel data by means of the following steps.

1. Switch on the TV set and - if necessary - select the programme number set for video recorder operation
2. Press the **MENU** button on the remote control. The on-screen menu appears

What is an on-screen menu?

The on-screen menu takes the mystery out of using your new video recorder. All settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen.

3. Use ↓P- or ↑P+ to select the option "INSTALLATION" and confirm with →
4. Use ↓P- or ↑P+ to select the option "AUTOINSTALL" and confirm with →

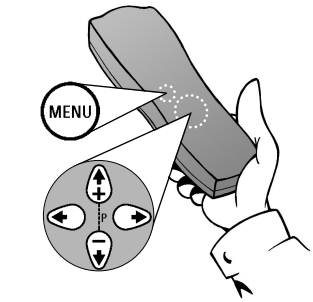
Sequence of TV channels

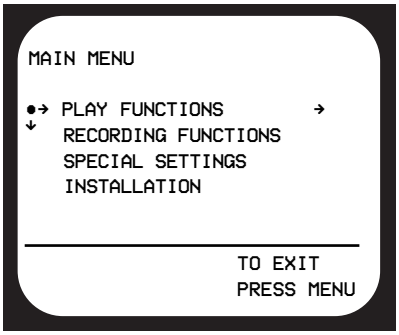
TV channels are stored in the following sequence: BBC1, BBC2, ITC, CH 4, CH 5, others.

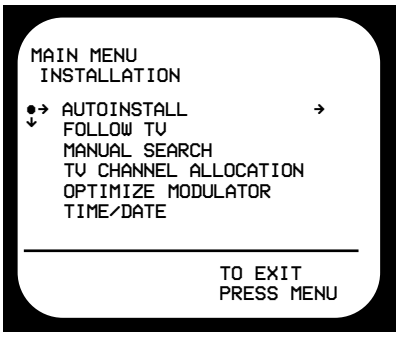
5. The set seeks out and stores all available TV channels. This procedure may take several minutes.
6. Finish with the **MENU** button

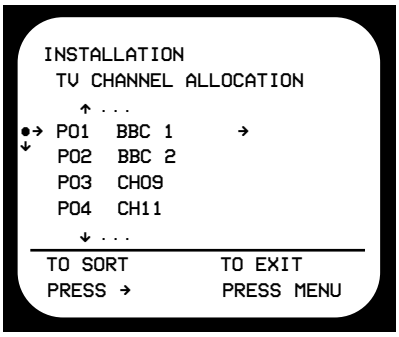
✘ **The video recorder is not finding all the TV channels**

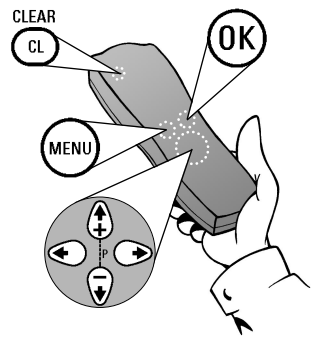
✔ In exceptional cases, it may happen that the set does not find all the available TV channels. In this case, the missing TV channels must be searched for and stored manually. You can look up how to do this in the chapter "Initial installation" ("Searching for a TV channel manually").











Sorting and clearing of TV channels manually

After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. You can use this function to individually sort the TV channels found or to delete unwanted TV channels or those with poor reception. If your TV set supports the Easylink function, you will not need to rearrange the TV channels later. The sequence corresponds to the channel allocation of your TV set.

1. Switch on the TV set and - if necessary - select the programme number set for video recorder operation

2. Press the **MENU** button on the remote control. The on-screen menu appears

3. Use **↓P-** or **↑P+** to select the option "INSTALLATION" and confirm with →

4. Use **↓P-** or **↑P+** to select the option "TV CHANNEL ALLOCATION" and confirm with →

5. Use the buttons **↓P-** or **↑P+** to select the TV channel which is to be allocated to a programme position and confirm with →

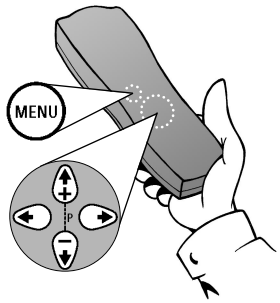
6. **Delete:** Delete the TV channel which has been set with **CL**

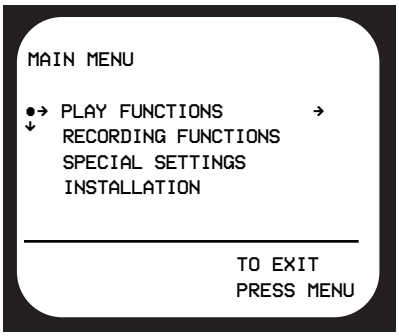
   Allocation: Allocate the selected TV channels with the buttons **↓P-** or **↑P+** to the desired programme position and confirm with ←

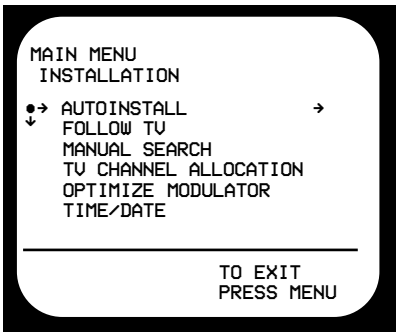
7. Repeat the steps **5** and **6**, to allocate additional TV channels or to delete additional unwanted TV channels

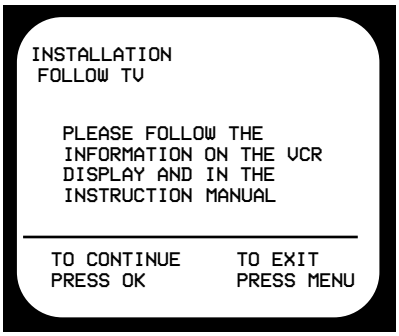
8. Use **OK** to store (screen will show "STORED")and finish the manual sorting/ clearing of TV channels with the **MENU** button

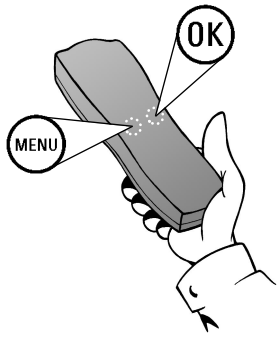
Sorting TV channels automatically (Follow TV)











After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions of the video recorder. With this function, the video recorder arranges the stored TV channels in the same sequence as on the TV set. If your TV set supports the Easylink function, you will not need to rearrange the TV channels later. The sequence corresponds to the channel allocation of your TV set.

How does "Follow TV" function?

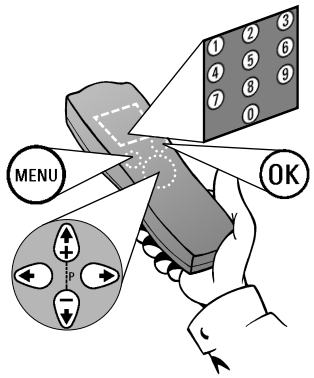
The video recorder compares the TV channels stored on the TV set at programme position 01 with its own programme position memory. If it finds a match, it also allocates the corresponding TV channel to programme position 01

1. Switch on the TV set and - if necessary - select the programme number set for video recorder operation
2. Press the **MENU** button on the remote control. The on-screen menu appears
3. Use **P-** or **P+** to select the option "INSTALLATION" and confirm with →
4. Use **P-** or **P+** to select the option "FOLLOW TV" and confirm with →
5. Press **OK**. The display will show "TV01".
6. <u>On the TV set</u> select the corresponding programme number (e. g. "01") and confirm with **OK** <u>on the remote control of the video recorder</u>.
7. The video recorder stores the TV channel on the programme number "01". The display will show "TV02" Repeat step 6 until all available TV channels are allocated. If you have selected a wrong TV channel, press ← to go back one step

✘ **The display shows "NOTV"**

✔ Unfortunately your TV set does not support this function. Please read "Sorting / deleting channels manually".

8. Finish with the **MENU** button



Changing the time and date

If the display shows an incorrect time or "--:--", the time and date must be set manually.

1. Press the **MENU** button on the remote control. The on-screen menu appears

2. Use **P-** or **P+** to select the option "INSTALLATION" and confirm with →

3. Use **P-** or **P+** to select the option "TIME/DATE" and confirm with →

Enter the values correctly
Numbers less than 10 must be entered with an additional "0". For "9" thus "09" should be entered.

TIP

4. Use **P-** or **P+** to select the option "TIME" and - if the setting displayed is incorrect - enter the current time, with the number buttons **0-9** or with → or ←

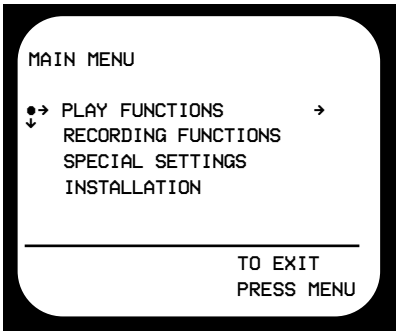
5. Use **P-** or **P+** to select the option "YEAR" and - if the displayed setting is incorrect - enter the current year with the number buttons **0-9** or with → or ←

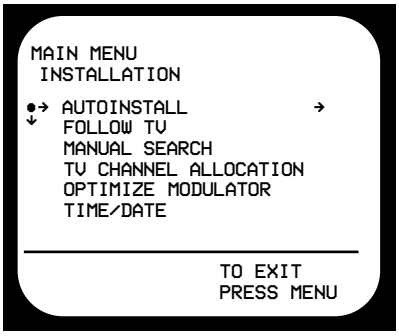
6. Use **P-** or **P+** to select the option "MONTH" and - if the displayed setting is incorrect - enter the current month with the number buttons **0-9** or with → or ←

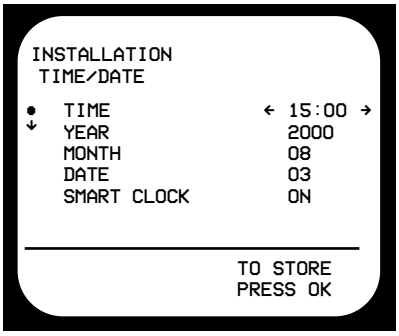
7. Use **P-** or **P+** to select the option "DATE" and - if the displayed setting is incorrect - enter the current calendar date with the number buttons **0-9** or with → or ←

8. Check the settings displayed for year, month, date and time and store them by pressing **OK**. The screen will show "STORED"

9. Leave the on-screen menu with the **MENU** button







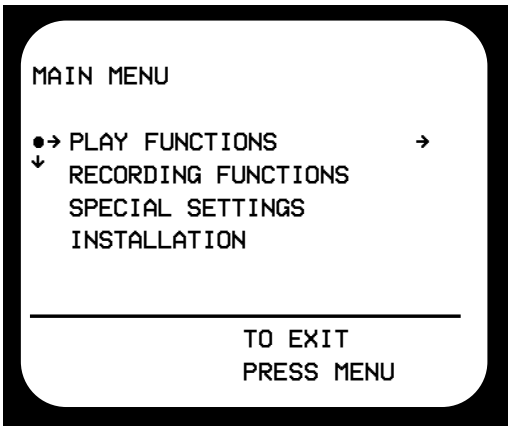
5 Operating instructions

General information

Switching on	If the video recorder is in standby mode, it can be switched on either by pressing the Standby button ⏻, by pressing one of the number buttons **0-9** or by inserting a cassette.
Automatic switch-off	If the video recorder is not used for several minutes, it switches itself off automatically. This function can be deactivated (e.g. if you want to use the video recorder as a TV receiver). You can find out more about this in the chapter "Other functions" ("Adjusting automatic switch off").
Energy consumption	The video recorder should always be connected to the mains so as not to affect programmed recordings and use of the TV set. Power consumption (in energy saving mode) is less than 4W.
Saving energy	In standby mode, the display of the video recorder shows the current time. This display can be deactivated manually, in order to reduce power consumption to a minimum in standby mode. You can find the necessary steps in the section "Other functions" ("Energy-saving mode").
Emergency exit	The video recorder and the remote control have the option of an "Emergency exit". You can use the Standby button ⏻ to interrupt any step during use. But even without an "emergency brake" your new video recorder is safe: there is no risk whatsoever of damaging the set by performing user steps incorrectly.
In the event of a power cut	Channel data are stored for around 1 year, time and timer data remain in the memory of the video recorder for around 7 hours.

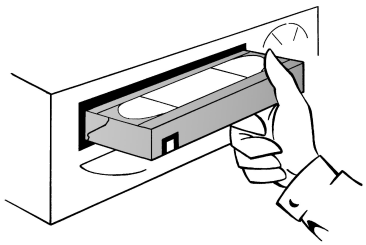
Navigation in the main menu

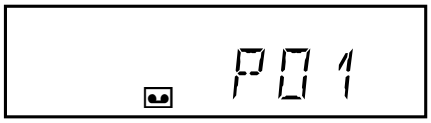
You can check and / or change many functions and settings of your video recorder via the main menu. The individual functions are selected as follows via the on-screen menu of the video recorder

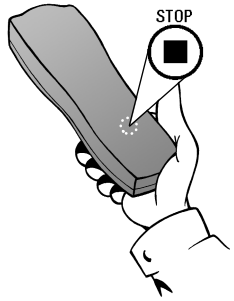


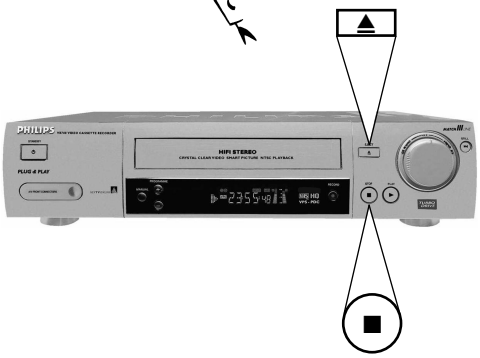
Call up:	**MENU**
Select:	**P+** and **P-** or →
Confirm:	**OK**
Enter:	**0-9** or → and ←
Interrupt:	**STANDBY/ON** ⏻
Abandon:	**MENU**

6 Playback









Playing cassettes

1. Insert a VHS cassette in the cassette opening on the front of the video recorder. The tape will be caught and automatically placed in the correct position. The display will show "📼"

What does VHS mean?

The "Video Home System" (VHS) has become the world-wide standard for recording and playback of amateur video cassettes. The popular standard has since been refined. Super-VHS (S-VHS) offers greater sharpness and less noise, Digital-VHS (D-VHS) now only works with digital picture and sound signals. Your video recorder can only record and play standard VHS cassettes.

2. Press the Playback button ▶ to play the tape

✘ **Picture / sound quality is poor**

✔ Please read the section "Removing picture interference" in this chapter.

✔ When playing many rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. There is nothing wrong with the video recorder.

3. Press the Stop button ■ on the remote control (or the Stop button ■ on the front of the video recorder), to stop playback

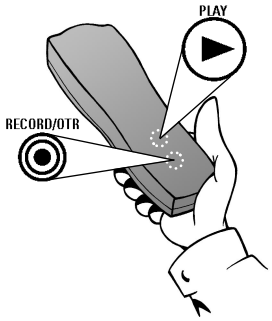
4. Press the cassette eject button ⏏ on the front of the video recorder to remove the tape

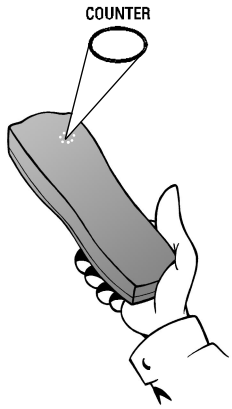
Automatic switch-off

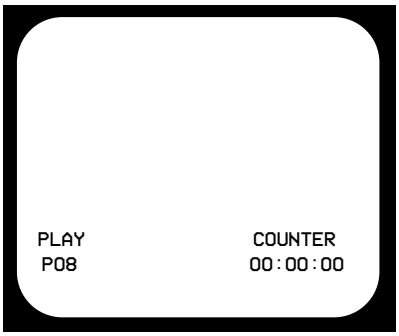
Many functions (pause, still picture, search, ...) switch themselves off automatically after a short time in order to protect the cassette and to save energy

Playing back NTSC cassettes

If you are using a PAL TV set which is capable of showing a frame frequency of 60 Hz, you can play cassettes which have been recorded on the NTSC standard (USA, Japan, etc.). During an NTSC playback, some special functions (e.g. still picture) are not possible. The display will show "60HZ"







Displaying tape position

If the **COUNTER** button is pressed during playback and recording the current tape position will be briefly displayed on the screen. There are three different types of display available.

1. Start playback (Play button ►) or recording (Record button ●)

2. By pressing the button **COUNTER** the current tape position will be displayed on the screen. Each further press of the button **COUNTER** activates the next type of display

What types of display are available to me?

"COUNTER" :	The display shows the number of minutes of tape already played after insertion of the cassette (hours/minutes/seconds)
"TIME LEFT" :	The display shows the remaining playing time to the end of the cassette (hours/minutes/seconds)
"TIME USED" :	The actual tape position (from the start of the tape to the present tape position) will be displayed.

3. As soon as the button **COUNTER** has not been pressed for a few seconds, the display of the tape position disappears again.

✘ **The counter stops running when unrecorded places are found ("Linear" display type)**

✔ This is normal, and is necessary for technical reasons.

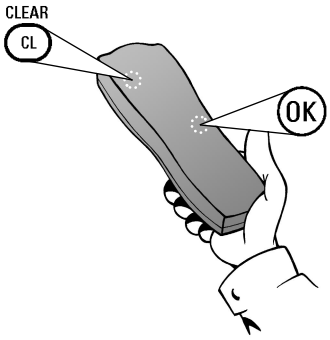
✘ **The display shows a negative playing time**

✔ This may happen, for example, when you insert an incompletely-rewound cassette into the video recorder and rewind it to the start of the tape. Since the display is automatically reset to "00:00:00" when you insert a cassette, the actual start of the cassette for the set is less than zero - thus in the negative range. The tape position is displayed with a minus sign "-".

✘ **After inserting a cassette the video recorder shows no remaining playing time**

✔ The set needs a little time to calculate the remaining playing time. After a few seconds, the display should change from --:--:-- to the corresponding value

Display / reset tape position



Call up: **COUNTER**

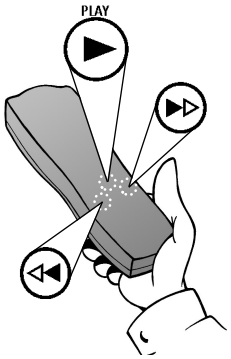
Reset: **CL** (only possible in display type "TIME USED")

Automatic reset

Whenever a cassette is inserted the display is automatically reset to "00 : 00 : 00".

TIP

Searching for tape position with picture (picture search)



1. During playback press ◁◀ (rewind) or ▶▷ (forward)
2. Interrupt the search wherever you like with the Playback button ►

Reduced quality

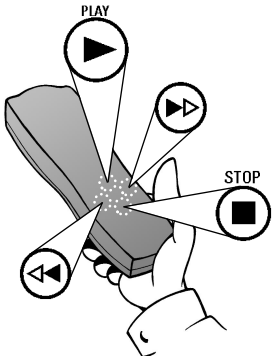
During picture search the picture quality is affected. The sound is switched off.

Different search speeds

-If you press ◁◀ or ▶▷ twice, the tape speed will increase. If you press it again the speed is reduced to normal once more.

TIP

Searching for tape position without picture (forward wind and rewind)



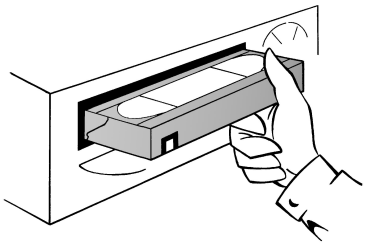
1. Stop the tape with the Stop button ■
2. Press ◁◀ (rewind) or ▶▷ (forward)
3. Interrupt the search wherever you like with the Playback button ►

Switching between rewind / forward wind and picture search (instant view)

When winding the tape backwards or forwards if you hold down ◁◀ (rewind) or ▶▷ (forward wind), the set will immediately switch without a break to picture search (with picture). When you release the rewind or forward wind button the rewind or forward wind process (without picture) will continue

FOR EXPERTS

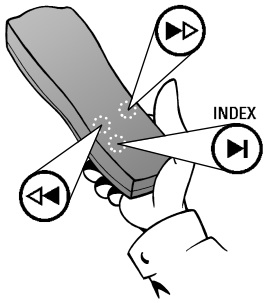
Searching automatically for tape position (Index search)



1. Insert a tape recorded on this video recorder or on another set with index marking

What is an index marking?

At the start of each new recording the video recorder automatically places a magnetic marking - similar to a bookmark - at the appropriate place on the tape. These positions can be found again quickly and easily later by pressing a button.



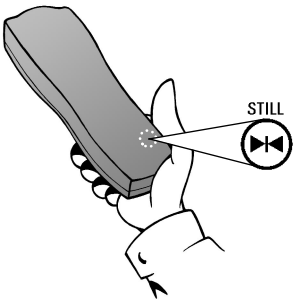
2. Press the Index button ▶| and then ▶▷ (next index marking) or ◁◀ (previous index marking)

3. The video recorder searches for the desired index marking and automatically switches to playback

✘ **The cassette is ejected**

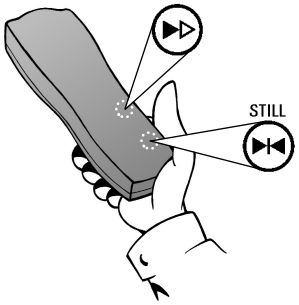
✔ The video recorder was unable to find an index marking on the tape inserted.

Still picture / slow motion



1. To stop the picture, press the Still button ▶|◀ during playback

2. Keep ▶|◀ pressed down to play back the picture in slow motion or press ▶|◀ several times in succession in order to move the picture forward frame by frame



3 Press ▶▷ once to start automatic slow motion playback

Increase playback speed

In automatic slow motion mode press ▶▷ several times to increase the playback speed.

No sound during slow motion

During slow motion there will be no sound

4 To resume playback press the Play button ►, to stop the tape press the Stop button ■

Skipping commercials

Do you get annoyed by the commercial breaks which are recorded along with your programmes ? With the function "Commercial Skip" you can skip these quickly and easily.

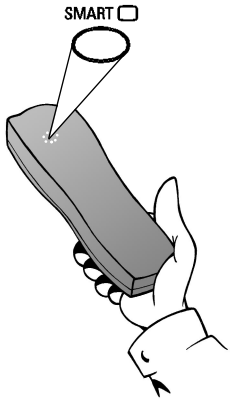
1 During playback, press button ►

2 The video recorder winds the tape forward for about 2 minutes playing time and then switches to playback again. Repeat step **1** until the end of the commercial break has been reached

Interrupt "Commercial Skip"

During winding, press the button ► to switch back immediately to playback.

Selecting picture setting (Smart Picture)



Using the button **SMART** the picture settings can be displayed and altered during playback. There are four different settings available.

1. Press once on the button **SMART**. The current picture setting will be displayed

2. Press several times on the button **SMART** to change the picture setting. Each time the button is pressed, the next picture setting will be displayed.

What types of picture setting are available to me?

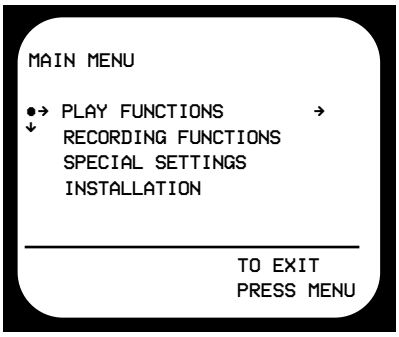
"NATURAL" :	Standard setting (for all types of films)
"DISTINCT" :	Emphasises details (e.g. for sports programmes)
"SOFT" :	Suppression of interference (when using rented cassettes)
"SHARP":	Increase in sharpness (e.g. for animated films)

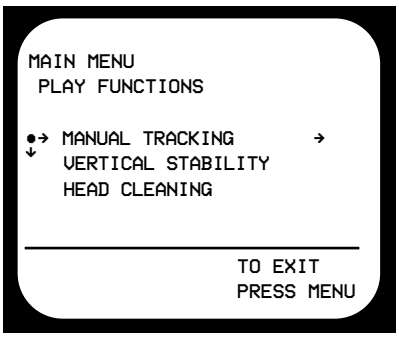
3. As soon as the button **SMART** has not been pressed for a few seconds, the last selected picture setting will be accepted.

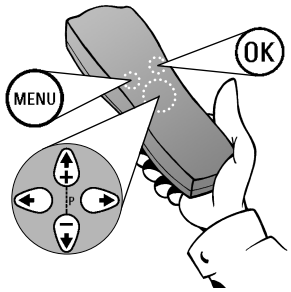
Play compact VHS cassettes

You can, of course, also use this video recorder to play back compact VHS cassettes. To do this, you will need the appropriate cassette adapter. Its dimensions match those of a normal VHS cassette. The adapter is recognised and treated by the set as a VHS cassette.

7 Removing picture interference







Optimizing tracking

1. During playback press the **MENU** button on the remote control. The on-screen menu appears
2. Use **P-** or **P+** to select the option "PLAY FUNCTIONS" and confirm with →
3. Use **P-** or **P+** to select the option "MANUAL TRACKING" and confirm with →

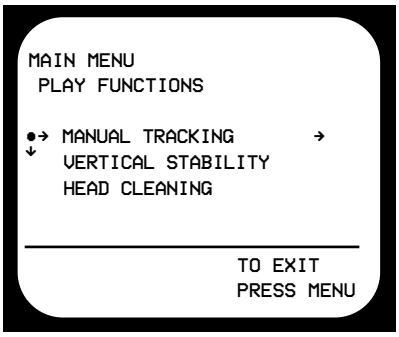
What is tracking?

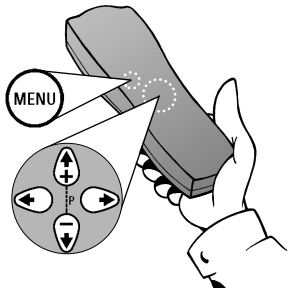
Tracking is the name given to the process of optimizing picture and sound playback. During this process the speed of the tape is adjusted in such a way that all kinds of interference are removed or (in the case of old VHS cassettes) minimized.

4. Hold down → or ← until optimal playback quality has been achieved and confirm with **OK**. The screen will show the message "STORED"
5. Leave the on-screen menu with the **MENU** button

Tracking adjustment is retained

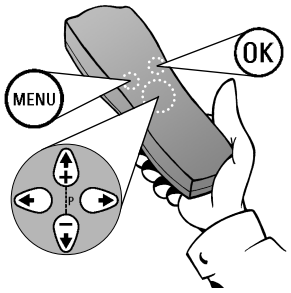
The adjustments made are stored until the cassette is removed. After that, the standard tracking adjustment is restored.

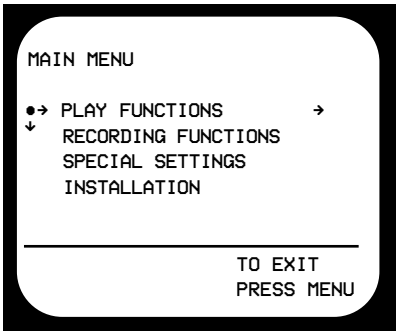


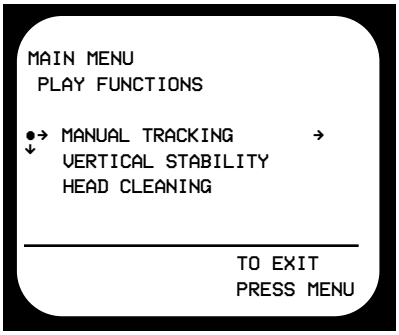


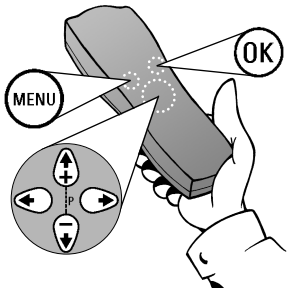
Optimizing still picture

1. When still picture is activated, press the **MENU** button on the remote control. The on-screen menu appears
2. Use **P-** or **P+** to select the option "PLAY FUNCTIONS" and confirm with →
3. Use **P-** or **P+** to select the option "VERTICAL STABILITY" and confirm with →









4. Hold down → or ← until optimal playback quality has been achieved and confirm with **OK**. The screen will show the message "STORED"

✘ **I can't get optimal quality**

✔ When using rental cassettes or older tapes, it may not be possible to get rid of all interference completely

5. Leave the on-screen menu with the **MENU** button

The setting is retained

The adjustments made are stored until the cassette is removed. Then the still picture standard setting is restored.

Cleaning video heads

If horizontal lines of interference appear during playback, the video heads need cleaning.

1. During playback press the **MENU** button on the remote control. The on-screen menu appears
2. Use **↓P-** or **↑P+** to select the option "PLAY FUNCTIONS" and confirm with →
3. Use **↓P-** or **↑P+** to select the option "HEAD CLEANING"

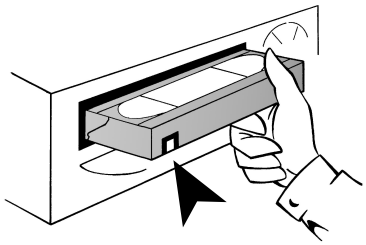
Why is it necessary to clean the video heads?

When playing back video tapes, microscopic particles of the tape material build up a layer on the video head. If too much tape material collects, this can affect playback quality. By using the function "Clean video heads", this tape material can be gently removed from the surface of the video heads.

4. Press **OK** to start the cleaning procedure. The screen will show "HEAD CLEANING IN PROGRESS"
5. Wait until the message disappears and leave the on-screen menu with **MENU**

8 Manual recording

Starting and stopping of recording manually

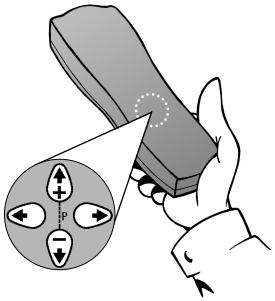


1. Switch on the TV set and - if necessary - select the programme number set for video recorder operation

2. Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



3. Use the buttons ↓P- or ↑P+ to select the programme number, under which your video recorder has stored the desired TV channel

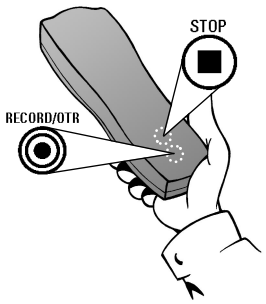
✘ **I can't find the TV channels from my satellite receiver**

✘ **I want to record from an additional device**

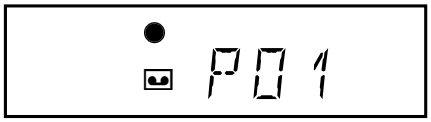
✔ Signals from additional devices - such as a camcorder, other video recorder, PCs, etc. - are received via the scart socket of the video recorder. The programme numbers "E 1" and "EE" are allocated for these sources.

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").

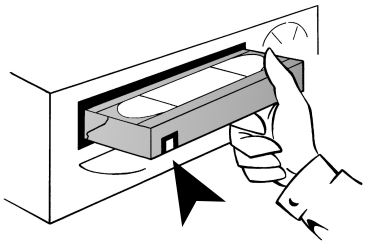


4. Start recording by pressing the Record button ● (remote control or on front of set). The display will show " ● ".



5. End the recording by pressing the Stop button ■

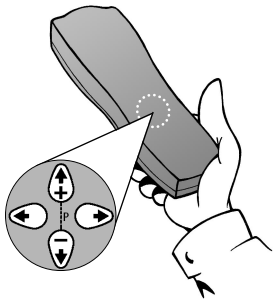
Starting recording manually/stopping automatically



1 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.



2 Use the buttons ↓P- or ↑P+ to select the programme number, under which your video recorder has stored the desired TV channel

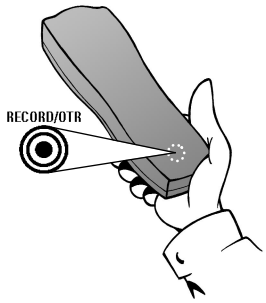
✘ **I can't find the TV channels from my satellite receiver**

✘ **I want to record from an additional device**

✔ Signals from additional devices - such as a camcorder, other video recorder, PCs, etc. - are received via the scart socket of the video recorder. The programme numbers "E 1" and "E2" are allocated for these sources.

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. This chapter explains how to set the desired recording speed ("Selecting the recording speed").



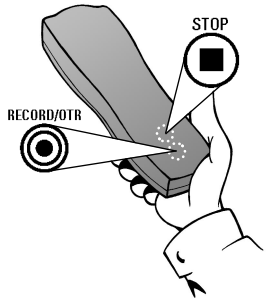
3 Press the Record button ● several times. The time faded in corresponds to the duration of recording to be selected. Each time the Record button is pressed again this is increased in regular steps. Stop pressing the Record button ● when you have reached the desired duration. Recording will start.

Delete entry

The recording period displayed can be reset to 00 : 00 : 00 with the **CL** button.

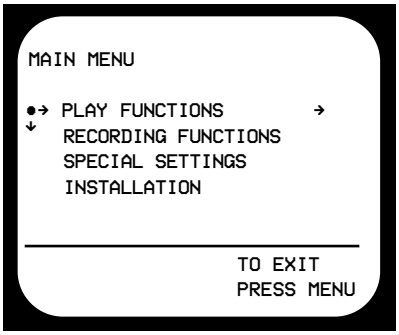
Lining up manual recordings

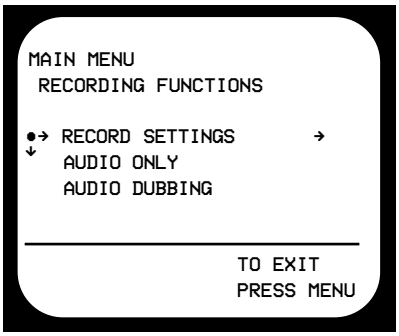
When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) usually appears between the old and the new recording. This is how to avoid such an effect.

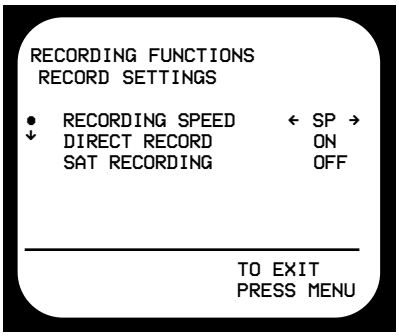


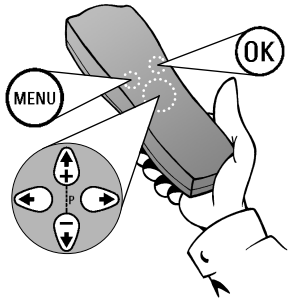
1. Look at the last minute of the old recording (playback)
2. Press the Stop button ■ at the point where you want the new recording to start (the display will show **II**)
3. Press the Record button ● in the usual way to start the new recording

Selecting the recording speed







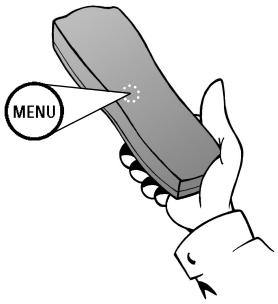


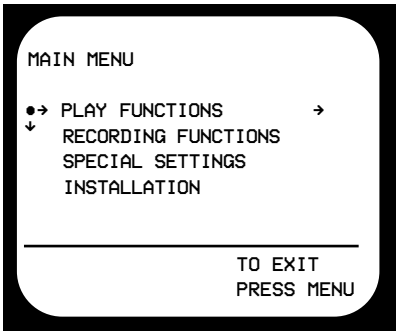
1. Press the **MENU** button on the remote control. The on-screen menu appears
2. Use **P-** or **P+** to select the option "RECORDING FUNCTIONS" and confirm with →
3. Use **P-** or **P+** to select the option "RECORD SETTINGS" and confirm with →
4. Use **P-** or **P+** to select the option "RECORDING SPEED" and use → or ← to select a recording speed

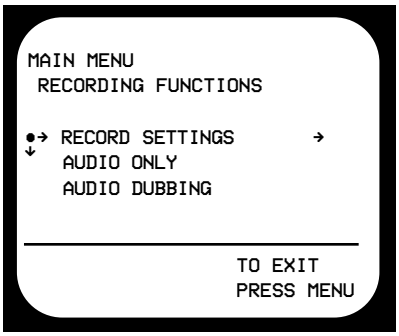
Standard Play / Long Play / Auto Long Play

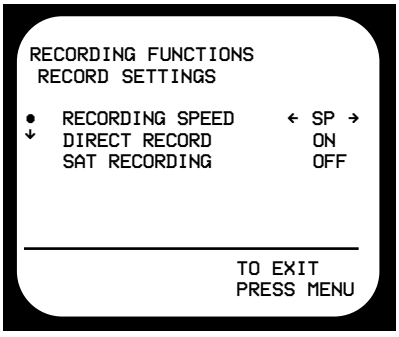
Standard Play (SP) offers the usual, first-class picture quality. By using Long Play (LP), you can (with somewhat reduced picture quality) for example record about 360 minutes of programmes on a 180 minute cassette. With the Auto Long Play (AUTO) setting, the video recorder calculates, before starting the programmed recording, how much playing time remains on the cassette inserted. Depending on the calculated remaining playing time and the duration of the programmed recording, the recording will be made in Standard Play or Long Play.

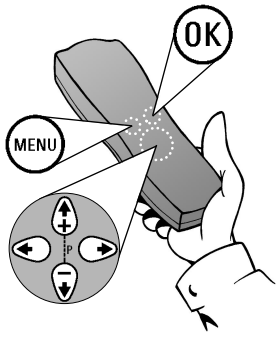
5. Confirm with **OK**. The screen will show the message "STORED"
6. Stop selection of recording speed with **MENU**











Activate / deactivate direct recording

1. Press the **MENU** button on the remote control. The on-screen menu appears

2. Use **P-** or **P+** to select the option "RECORDING FUNCTIONS" and confirm with →

3. Use **P-** or **P+** to select the option "RECORD SETTINGS" and confirm with →

4. Use **P-** or **P+** to select the option "DIRECT RECORD"

What is a "direct recording"?

The "Direct Record" function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirement: 1. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the "Easylink" function. 3. The "Direct Record" function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine!

5. Use → or ← to select the setting "ON" to enable direct recordings, or "OFF" to deactivate this function.

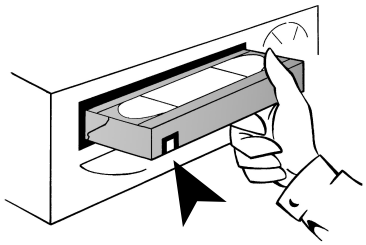
✘ **I cannot select "ON" or "OFF"**

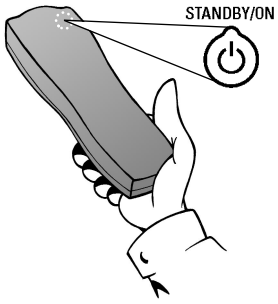
✔ If the comment "N.ACT." appears in the "DIRECT RECORD" option, unfortunately your TV set does not support the "Easylink" function. This means that direct recordings are not possible.

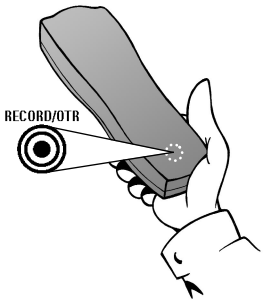
6. Confirm the setting with **OK**. The screen will show the message "STORED"

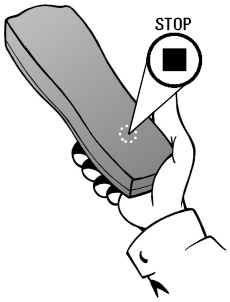
7. Leave the on-screen menu with the **MENU** button

Making a direct recording









1 The "direct record" function must be activated in the on-screen menu (see previous page). No direct recordings can be made unless this function has been activated

What is a "direct recording"?

The "Direct Record" function means you can record in seconds when the video recorder is switched off. When the record button is pressed, the video recorder automatically recognises which TV channel has been selected on the TV set and starts to record the corresponding programme.

Requirement: 1. The TV set and video recorder are connected with a scart cable! 2. The TV set supports the "Easylink" function. 3. The "Direct Record" function has been activated in the on-screen menu. 4. There is a cassette ready for recording in the machine!

2 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.

3 Switch off the video recorder with the Standby button ⏻

4 On the TV set, select the channel for the programme you wish to record

5 Press the Record button ● on the video recorder. The video recorder recognises the TV channel on the TV set and automatically records the correct programme

Switch the video recorder off!

The "direct record" function only works if the Record button ● is pressed when the video recorder is switched off.

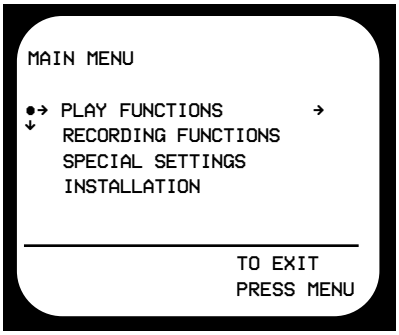
6 End the recording by pressing the Stop button ■

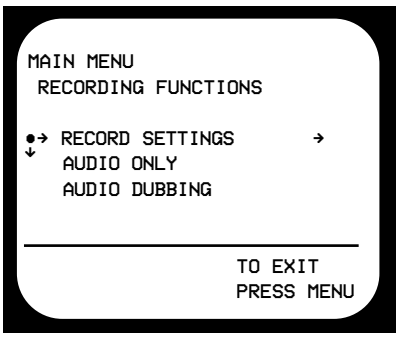
Recording automatically from a satellite receiver

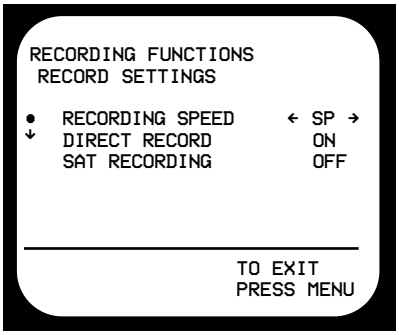
You can only use this function if you have a satellite receiver which can control other devices via a scart cable

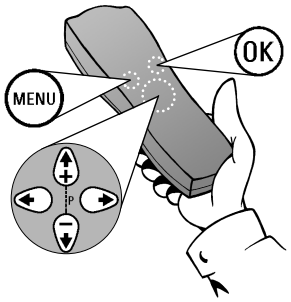
What is a scart cable?

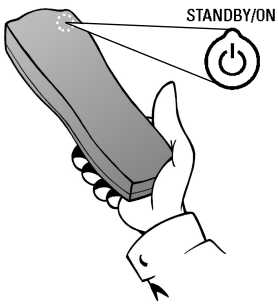
The scart or Euro-AV cable serves as the universal recording and playback connector for picture-, sound- and control signals. With this type of connection, there is practically no loss of quality during the signal transfer. We recommend that you use a scart cable when using this video recorder.





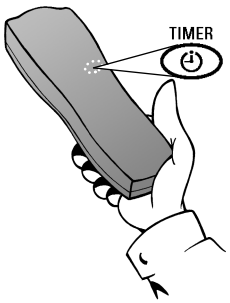


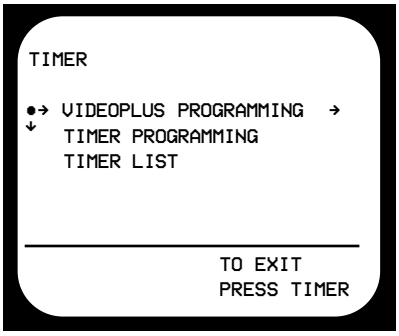


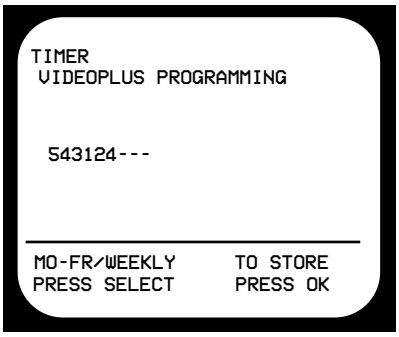


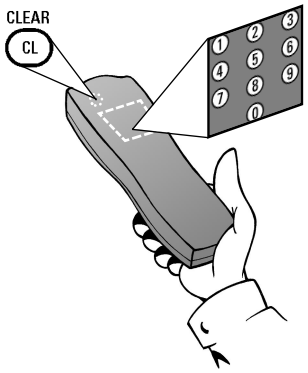
1. Insert a cassette without erase protection
2. Make sure that the satellite receiver is connected to the scart socket **AV 1 EXT.1** or **AV 2 EXT.2** at the back of the video recorder
3. Press the **MENU** button on the remote control. The on-screen menu appears
4. Use **↓P-** or **↑P+** to select the option "RECORDING FUNCTIONS" and confirm with →
5. Use **↓P-** or **↑P+** to select the option "RECORD SETTINGS" and confirm with →
6. Use **↓P-** or **↑P+** to select the option "SAT RECORDING" and use → or ← to select the scart socket ("E1" or "E2"), to which the satellite receiver has been connected (see step 2). Confirm with **OK**. The screen will show ("STORED")
7. Leave the on-screen menu with **MENU**
8. Programme the data <u>on the satellite receiver</u> for the desired recording. If necessary, you should refer to the instructions for your satellite receiver for assistance.
9. **SWITCH OFF <u>THE VIDEO RECORDER</u> WITH THE STANDBY/ON BUTTON ⏻. IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.** When automatic recording has been activated by a satellite receiver, "🔕" will light up in the display

9 Programmed recordings









Programming timer with VIDEO Plus+

1 Press the **TIMER** button ⏻

What is a Timer?

The timer controls the programmed recordings of your video recorder. Requirements for a timer which works correctly: The clock in the video recorder must be correctly set or the reception of the TV signal must be as free from interference as possible (for example, if there is interference, the video recorder might not correctly recognise the VPS signal of a TV channel).

2 Use **↓P-** or **↑P+** to select the option "VIDEOPLUS RECORDING" and confirm with **→**. The VIDEO Plus screen will appear

What is VIDEO Plus+?

A programming system which replaces the often tiresome entry of date, starting time, finish time and programme number by the simple entry of a number up to nine digits long (which can be found in any TV programme listing).

3 Use the **0-9** keys to enter the PlusCode programming number of the TV programme selected: Incorrect entries can be deleted with the button **CL**

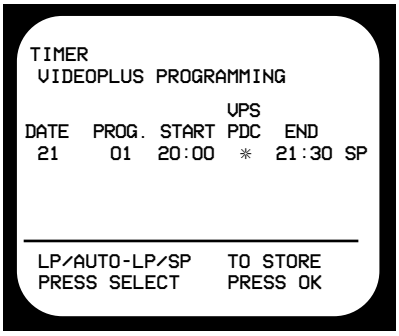
Daily / weekly recordings

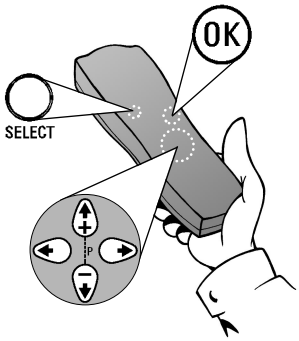
If you like, you can use **SELECT** to choose "MO-FR" for recordings, which are repeated daily or "WEEKLY" for recordings which are repeated each week on the same day.

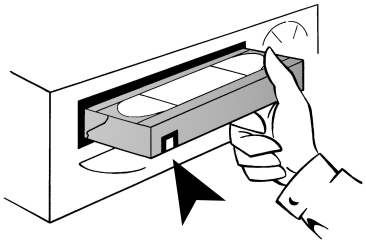
4 Confirm with **OK**

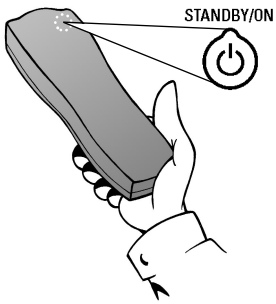
✘ **I get the error message**
" PROGRAMME NUMBER ← P-- → "

✔ You have entered a correct PlusCode programming number - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel, using the buttons **0-9**, and confirm with **OK**.









5 The data of previously entered VIDEO Plus recordings are displayed. If necessary select the entry fields with with → or ← and enter date, programme number, start time or end time with **P-** , **P+** or **0-9**

Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the input box, "START" use **SELECT** to switch recognition of these signals on (✳) or off ( ).

Selecting the recording speed

You have the option of two playback and recording speeds: Standard Play (SP) offers the usual first-class picture quality, and with Long Play (LP) you can for example (with somewhat reduced picture quality) record about 360 minutes on a 180-minute cassette. In Auto Long Play (AL), the video recorder recognises how much remaining playing time is available and automatically selects SP or LP. In the entry field "END" use **SELECT** to enter the required setting.

6 Confirm with **OK**. The screen will show the message "STORED"

7 Insert a cassette without erase protection

What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.

8 SWITCH OFF THE VIDEO RECORDER WITH THE STANDBY/ON BUTTON ⏻ ! IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.

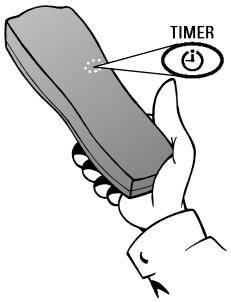
The display will show "⏻"

YOU WILL FIND TIPS FOR SOLVING PROBLEMS TO DO WITH VIDEO PLUS RECORDING ON THE FOLLOWING PAGE.

Problem solving (VIDEO Plus-Programming)

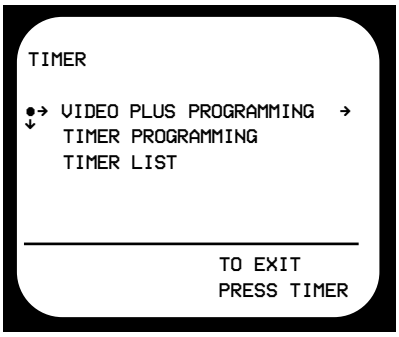
PROBLEM	SOLUTION
Error message: "PLUSCODE NUMBER ← P-- →"	A correct PlusCode programming number has been entered - but automatic recognition of the correct TV channel has failed. Please enter the programme number under which your video recorder has stored the desired TV channel using the buttons **0-9** and confirm with **OK**.
Error message: "PLUSCODE NUMBER WRONG"	The Pluscode programming number entered is incorrect. Please repeat the entry or finish with the button **STANDBY/ON** ⏻.
Error message: "WEEKEND PROGRAMMING NOT POSSIBLE"	The attribute "MO-FR" has been selected for a recording at the weekend. This is only possible for recordings from Monday to Friday. Please repeat the entry or finish with the button **STANDBY/ON** ⏻.
Error message: "SWITCH TO STANDBY - TIMER RECORDING"	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button ⏻. Press **STANDBY/ON** ⏻, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: "NO CASSETTE"	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: "MEMORY FULL"	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter "Delete a programmed recording").
"⏻" and/or "📼" are flashing in the display of the video recorder	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording. A recording was programmed, but the video recorder was not switched into timer mode with the Standby button ⏻. Press **STANDBY/ON** ⏻, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
The set cannot be used during recording.	Once started, a recording can only be interrupted by pressing the **STANDBY/ON** button ⏻. WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering/confirming year, month, date and time you can continue programming.

Programming timer without VIDEO Plus+



1 Press the button **TIMER** ⏻

2 Use **P-** or **P+** to select the option "TIMER RECORDING" and confirm with →



3 The timer screen appears

Enter the values correctly
Numbers less than 10 must be entered with an additional "0". For "9" thus "09" should be entered.

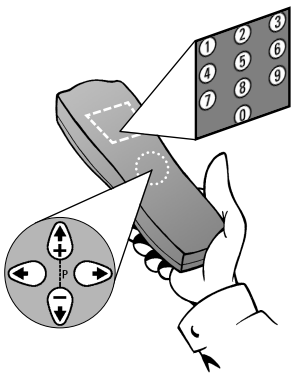
TIP

4 Use → or ← to select the entry field "DATE" and use **P-** or **P+** or the number buttons **0-9** to enter the date of the desired recording

Daily / weekly recordings

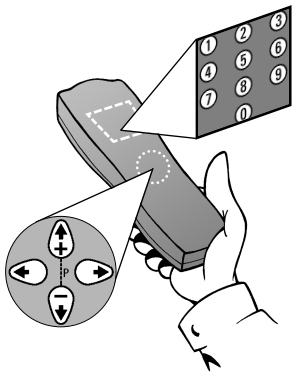
If you like, you can use **SELECT** "MO-FR" for recordings which are repeated daily or "WEEKLY" for recordings shown each week on the same day.

FOR EXPERTS



5 Use → or ← to select the entry field "PROG." and use **P-** or **P+** or the number buttons **0-9** to enter the programme number under which the video recorder has stored the desired TV channel

6 Use → or ← to select the entry field "START" and use **P-** or **P+** or the number buttons **0-9** to enter the start time of the desired recording

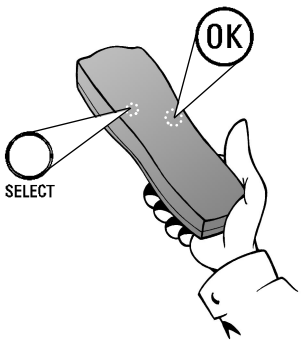


Activate VPS/PDC

VPS (Video Programming Service) and PDC signals (Programme Delivery Control) are transmitted by TV channels at the start and end of transmissions and ensure that programmes will be completely recorded, even if they are rescheduled. In the entry field, "START" use **SELECT** to switch recognition of these signals on (*) or off ( ).

FOR EXPERTS

7 Use → or ← to select the entry field "END." and use **P-** or **P+** or the number buttons **0-9** to enter the finishtime of the desired recording



Selecting the recording speed

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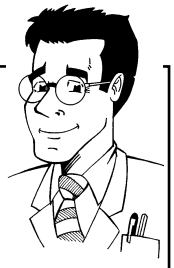
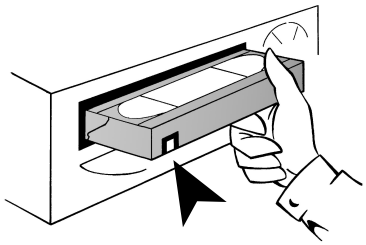


FOR EXPERTS

8 Check that the date, programme number, start and finish time are shown correctly on the screen. Confirm with **OK**. The screen will show "STORED"

9 Insert a cassette without erase protection

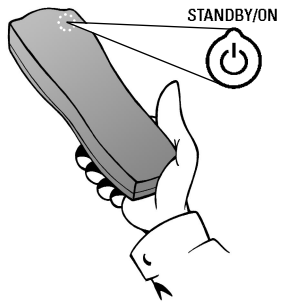


What is erase protection?

VHS cassettes can be protected from over-recording by breaking off a thin strip of plastic (arrow). This erase protection can be overridden by sticking one or more strips of adhesive tape tightly over the gap which has been created.

PARDON?

10 SWITCH OFF THE VIDEO RECORDER WITH THE **STANDBY/ON** BUTTON ⏻ ! IF YOU DON'T DO THIS, THE SET WILL NOT RECORD.



The display will show "⏻"

YOU WILL FIND TIPS FOR SOLVING PROBLEMS TO DO WITH TIMER RECORDING ON THE FOLLOWING PAGE.

PROBLEM

Problem solving (Timer programming)

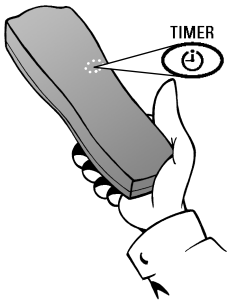
PROBLEM	SOLUTION
Error message: "NO CASSETTE"	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording.
Error message: "SWITCH TO STANDBY - TIMER RECORDING"	A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press **STANDBY/ON** ⏻, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
"⏻" and/or "📼" are flashing in the display of the video recorder	A recording was programmed, but there is no cassette in the machine. Insert a cassette without erase protection ready for recording. A recording was programmed, but the video recorder was not switched into timer mode with the Standby button. Press **STANDBY/ON** ⏻, in order to make the programmed recording. Warning: if you do not do this, the video recorder will not record.
Error message: "MEMORY FULL"	All the available memory locations in your video recorder for timer and VIDEO Plus programming are full. Delete a programmed recording (see chapter "Delete / check / change programmed recordings").
Cassette is ejected during recording	The end of the tape was reached during a programmed recording. The recording could not be completed satisfactorily.
Cassette is ejected after programming	A cassette with erase protection was inserted. Please deactivate the erase protection or insert another cassette which is ready for recording.
The set cannot be used during recording	Once started, a recording can only be interrupted by pressing the **STANDBY/ON** button ⏻. WARNING: This will not only stop the recording, but it will also delete the programmed recording from the memory of the video recorder.
Year/month/date/time screen appears	The time has not been set or not set correctly. After entering/confirming year, month, date and time you can continue programming.

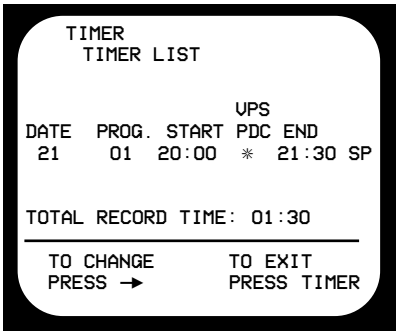
FOR EXPERTS

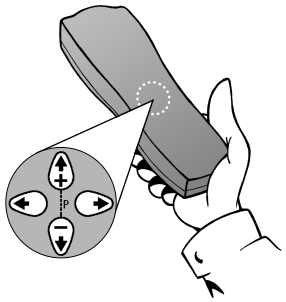
Recording via external sources

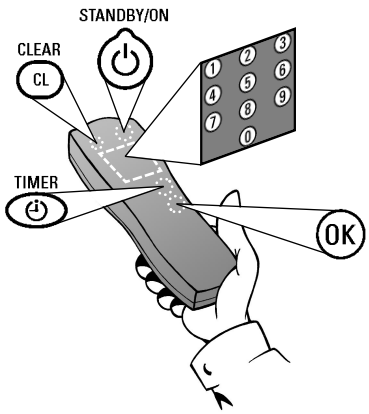
If you want to watch or record transmissions from a satellite receiver, films from a video camera (or from other external devices), connect the device to the scart socket **EXT1 AV1** or **EXT2 AV2** and select the programme number on your video recorder "E 1" or "E 2".

Delete / check / change programmed recordings









1. Press the **TIMER** button ⏲ on the remote control

2. Use **↓P-** or **↑P+** to select the option "TIMER RECORDING" and confirm with →

3. In the display, use the button **↓P-** or **↑P+** to select the storage position you wish to check/change/delete

What is a memory location?

For technical reasons, your video recorder has access to a limited number of "drawers" in which you can store your programming requirements. "Drawers" occupied by programme recording details are only available for use again after the video recorder has successfully completed a programmed recording or if it has been manually deleted. Your video recorder can store up to six timer programmings

4. **Delete:** Press **CLEAR (CL)**, confirm with the button **OK** (screen shows "TIMER CLEARED") and finish with **TIMER** ⏲

   Check: Press →, check the stored details and (once you have checked) end with **TIMER** ⏲

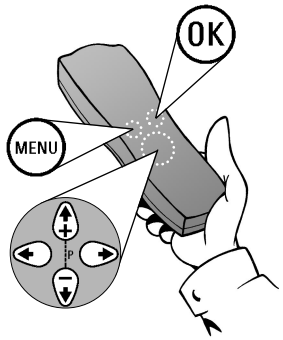
   Changing: Press →, use **↓P-** or **↑P+** to select the entry fields to be altered and use **0-9** to enter the new value(s). Confirm with **OK** and activate the timer again with the Standby button ⏻.

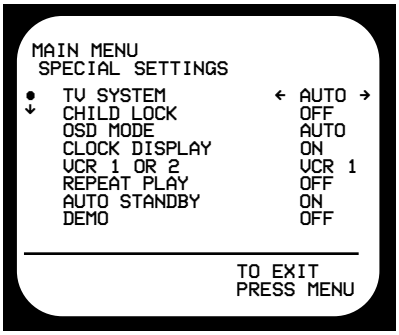
Using "NexTView Link"

If your TV set supports the function "NexTView Link" there is another way in which you can quickly and simply programme recordings: With these TV sets, you can call up the transmission schedule of the TV channel, mark the programmes to be recorded and automatically transfer their details into the memory of the video recorder. Please look in the instructions for your TV set to find out whether and how you can benefit from this function.

10 Other functions

Adjusting automatic switch-off



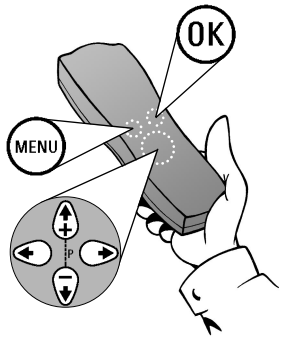


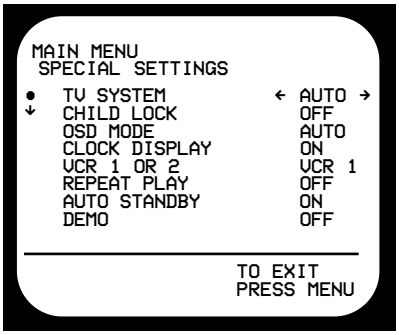
If the video recorder is not used for several minutes, it switches itself off automatically. If you want to use the video recorder as a TV receiver, you can deactivate the automatic switch-off as follows:

1. Press the **MENU** button on the remote control. The on-screen menu appears
2. Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with →
3. Use **↓P-** or **↑P+** to select the option "AUTO STANDBY" and use → or ← to select the setting "ON" (automatic switch-off) or "OFF" (no automatic switch-off). Confirm with **OK**
4. Complete the adjustment of automatic switch-off with the **MENU** button

Adjusting the child lock

You can prevent unauthorised use of your video recorder with this function. Once it is activated, the buttons on the front of the set are locked. Previously entered programmes will of course be recorded





1. Press the **MENU** button on the remote control. The on-screen menu appears
2. Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with →
3. Use **↓P-** or **↑P+** to select the option "CHILD LOCK" and use → or ← to select the setting "ON" (Child lock on) or "OFF" (Child lock off). Confirm with **OK**

TIP

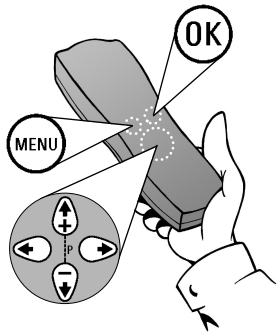
Put the remote control away in a safe place.

Once the child lock has been activated, ("🔑" lights up in the display) the video recorder can now only be used with the remote control. The buttons on the front of the set will not function. Put away the remote control somewhere out of the reach of children.

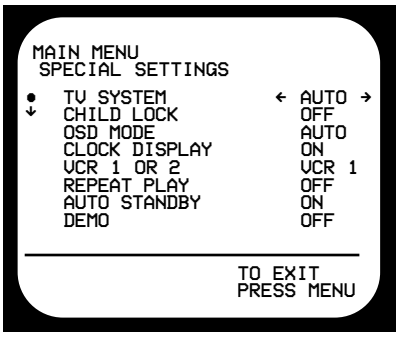
4. Finish with the **MENU** button

Replaying cassette continuously

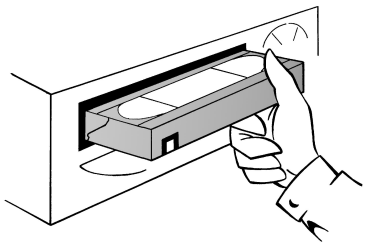
This function can be used to play a tape over and over again. If the end of the cassette or of the recording has been reached, the video recorder automatically rewinds to the start of the tape and starts to play back again. This function is activated or deactivated as follows:



1. Press the **MENU** button on the remote control. The on-screen menu appears



2. Use **P-** or **P+** to select the option "SPECIAL SETTINGS" and confirm with →



3. Use **P-** or **P+** to select the option "REPEAT PLAY" and use → or ← to select the setting "ON" (continuous playback on) or "OFF" (continuous playback off). Confirm with **OK**

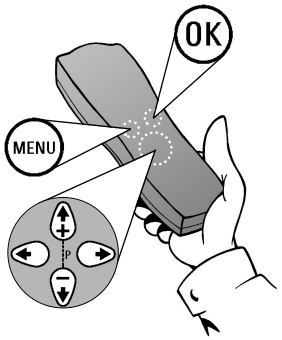
4. Complete the adjustment of continuous playback with the **MENU** button

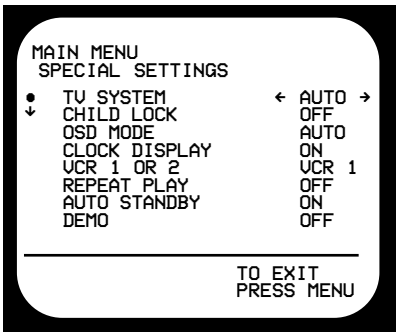
5. Insert a cassette

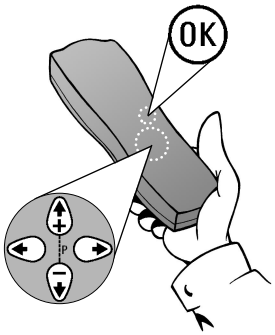
6. Press the Playback button ▶ to start the playback or continuous playback (depending on the setting)

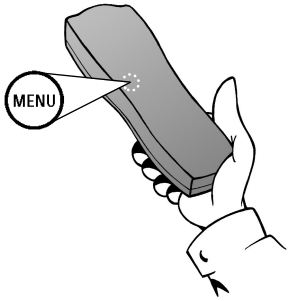
Changing the TV system

When playing back cassettes which have been recorded with signals from a different TV system there may be interference with the colour. To deactivate the automatic change to a different TV system, you must follow these steps.









TV systems

Other countries, other TV systems: In central Europe transmissions are broadcast in the PAL-System (Phase Alternation Line) Standard, while in France SECAM (Séquentiel à mémoire) is used. In some countries (USA and Japan), TV viewers receive their programmes as an NTSC signal (National Television System Committee). Many TV and video sets can process and show several transmission systems.

1. Press the **MENU** button on the remote control. The on-screen menu appears

2. Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with →

3. Use **↓P-** or **↑P+** to select the option "TV SYSTEM" , use → or ← to select the desired TV system or "B/W" for black/white playback and confirm with **OK**

Reactivating automatic change-over

As soon as a cassette is ejected with the Eject button ▲ on the front of the video recorder the set switches automatically back to the "AUTO" setting (automatic switching). To change the setting during playback, perform the steps 1-3 again and select "AUTO".

4. End the change-over to automatic TV system changing with the **MENU** button

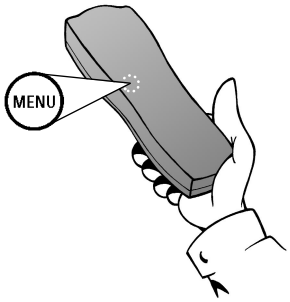
Adjusting the OSD information

If this function is activated, the current operating details of the video recorder will be briefly displayed on the screen

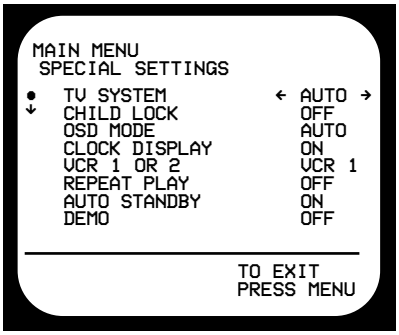
What is an OSD?

The on-screen menu or OSD ("On-Screen Display" takes the mystery out of using your new video recorder. Using the main menu (MENU button on your remote control), all settings and recording steps can be done easily via the on-screen menu by following the corresponding instructions on the screen.

PARDON?



1 During playback press the **MENU** button on the remote control. The on-screen menu appears



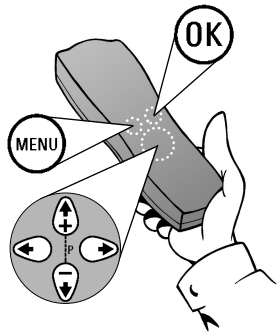
2 Use ↓**P-** or ↑**P+** to select the option "SPECIAL SETTINGS" and confirm with →

3 Use ↓**P-** or ↑**P+** to select the option "OSD MODE", use → or ← to select the desired setting and confirm with **OK**

What goes on behind the settings?

AUTO:	For each type of operation selected (playback, recording, etc.) the corresponding symbol appears briefly on the screen
ON:	The OSD details will be shown
OFF:	OSD information is not shown

TIP

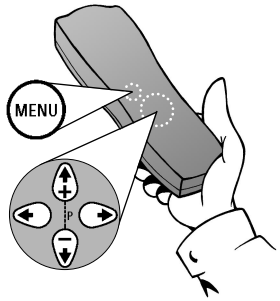


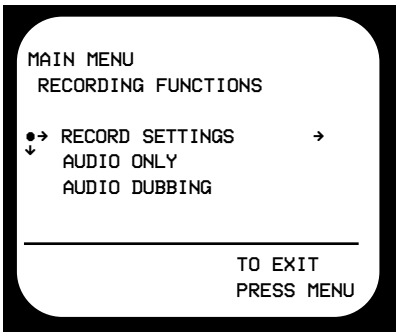
5 Complete the adjustment of the OSD information with the **MENU** button

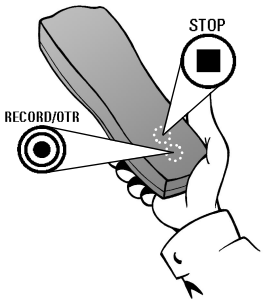
Audio recording

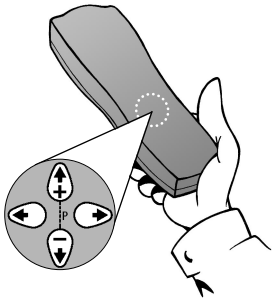
You can record audio signals (without picture) on VHS cassettes, if you connect the sound source with the scart or audio sockets of the video recorder.

1 Connect the desired sound source to the video recorder and insert a cassette ready for recording









2 Use ↓P- or ↑P+ to select the corresponding programme number

Which is the correct programme number?		
	Socket	*Programme number*
AV1 EXT1	(Rear)	E1
AV2 EXT2	(Rear)	E2
AUDIO	(Front)	E3
AUX IN	(Rear)	AUX

3 Press the **MENU** button. The on-screen menu appears

4 Use ↓P- or ↑P+ to select the option "RECORDING FUNCTIONS" and confirm with →

5 Use ↓P- or ↑P+ to select the option "AUDIO ONLY" and confirm with →

6 Press the Record button ● in the usual way to start the recording

7 Press the Stop button ■ to end the recording

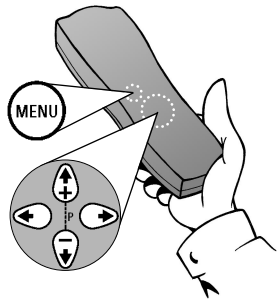
8 Leave the on-screen menu with the **MENU** button

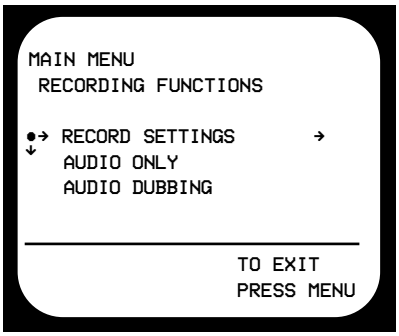
Dubbing (Audio Dubbing)

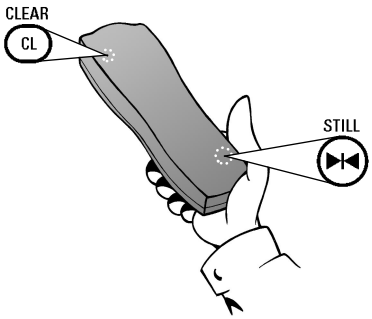
Of course, you can also dub existing video recordings with this video recorder. The mono track is recorded with a new sound signal. The original stereo signal is retained. To make dubbing audible during playback, you must select the "MIX" or "MONO" sound channel setting.

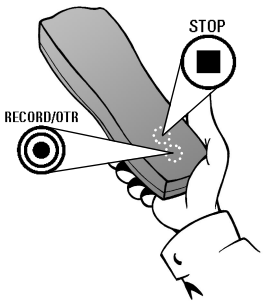
1 Connect the desired sound source to the video recorder and insert a cassette ready for recording

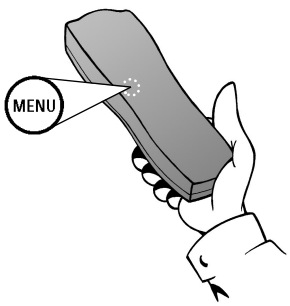
2 Use ↓P- or ↑P+ to select the corresponding programme number











3. Press the **MENU** button. The on-screen menu appears

4. Use **P-** or **P+** to select the option "RECORDING FUNCTIONS" and confirm with →

5. Use **P-** or **P+** to select the option "AUDIO DUBBING" and confirm with →

6. The video recorder switches to still picture

7. Wind to the space on the tape, where the dubbing should end, and with the button **CLEAR (CL)** set the counter to "00:00:00"

PROBLEM

✘ **The tape stops automatically and the "RECORDING FUNCTIONS" screen appears**

✔ The end of the tape was reached during winding or playback. Go back to step 5, to start this procedure again.

8. Wind to the space on the tape, where the dubbing should begin, and press ▶◀ . The video recorder switches to still picture

9. Press ▶◀ (still picture) several times until the desired point is reached and confirm with the Stop button ■

10. On the connected sound source start the playback of the sound signal and press **simultaneously** the Record button ● on the remote control of the video recorder to start the recording.

11. The new sound signal is being recorded. As soon as the tape position previously marked with "00:00:00" is reached, the dubbing will stop automatically

12. Finish with the **MENU** button

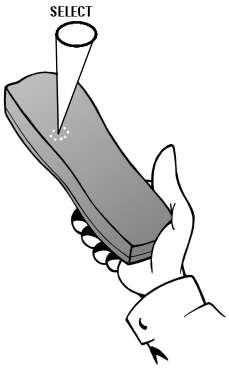
TIP

Make dubbing audible

To make dubbing audible, you must select the "MIX" or "MONO" sound channel setting (see "Selecting the sound channel").

Selecting the sound channel

During playback or while receiving a TV channel via the video recorder, one or more sound channels can be selected. This means, for example, if there are multilingual transmissions, you can select the language you want.

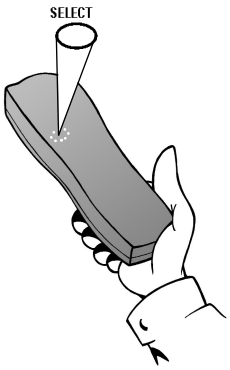


1. Press the **SELECT** button on the remote control.
   The current sound channel setting is displayed

What goes on behind the settings?

STEREO:	Both left and right stereo sound tracks can be heard
LEFT:	The left stereo sound track can be heard
RIGHT:	The right stereo sound track can be heard
MONO:	The mono sound track can be heard
MIXED:	The mono sound track as well as the left and right stereo sound tracks can be heard

TIP



2. Press the **SELECT** button several times until the desired setting can be seen on the screen

Automatic switch-over to mono

If no stereo signal is recorded on a video cassette, the video recorder automatically switches over to the "MONO" sound channel setting

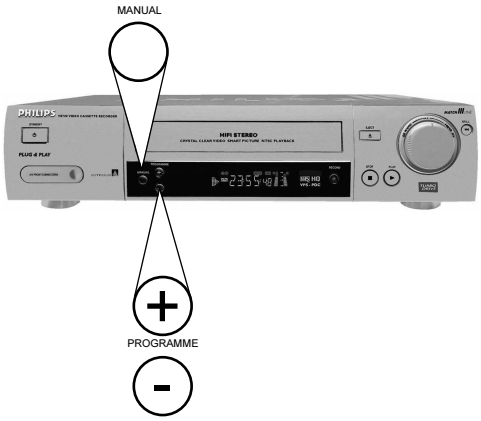
Make dubbing audible

When dubbing video recordings, the mono track is recorded with a new sound signal. The original stereo signal is retained. To make dubbing audible, you must select the "MIX" or "MONO" sound channel setting.

TIP

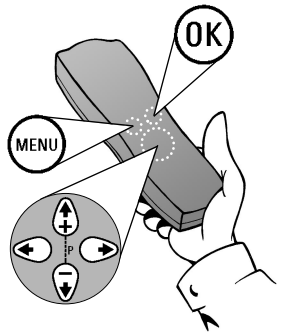
Manual mute

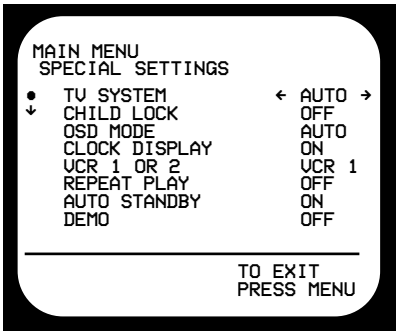
With the **MANUAL** button on the front of the video recorder you can regulate the signal level of the audio signals (scart sockets, audio sockets) received by the video recorder.



1. Press the **MANUAL** button on the front of the video recorder until the current setting (e.g. "MAN20") appears in the display

2. On the front of the video recorder use **PROGRAMME -** or **PROGRAMME +** to select the desired setting or press **MANUAL** again, to switch back to automatic mute ("AUTO")

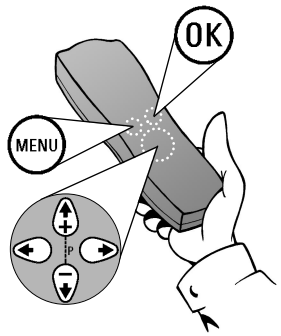


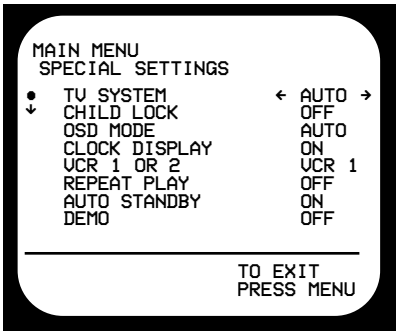


Demonstration mode

In this operating mode, the video recorder automatically gives a demonstration of its functions after switching off. Programmed recordings are obviously performed.

1. Press **MENU**. The on-screen menu appears
2. Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with →
3. Use **↓P-** or **↑P+** to select the option "DEMO", use → or ← **to select** "ON" or "OFF" and confirm with **OK**
4. Finish with the **MENU** button

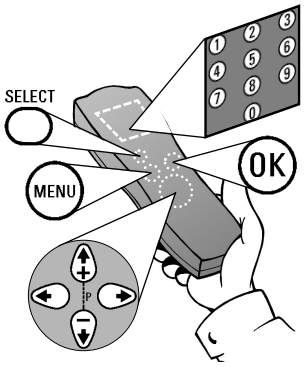


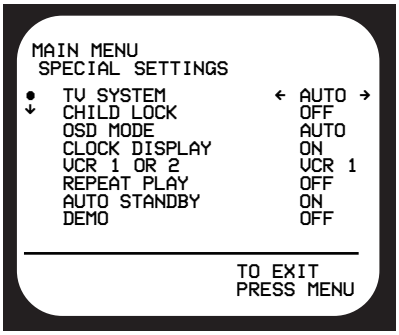


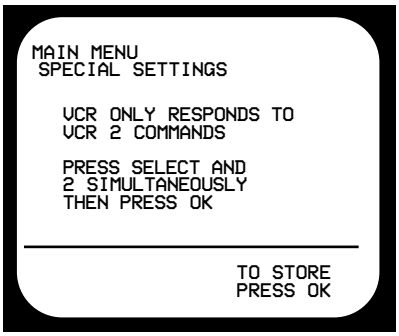
Energy-saving mode

To reduce the power consumption of the video recorder you can switch the clock in the display of the video recorder on or off as follows:

1. Press the **MENU** button on the remote control. The on-screen menu appears
2. Use **↓P-** or **↑P+** to select the option "SPECIAL SETTINGS" and confirm with →
3. Use **↓P-** or **↑P+** to select the option "CLOCK DISPLAY", use → or ← "ON" (time display on in standby mode) or "OFF" (time display off in standby mode) and confirm with **OK**. The screen will show the message "STORED"
4. Complete the adjustment of the clock display with the **MENU** button



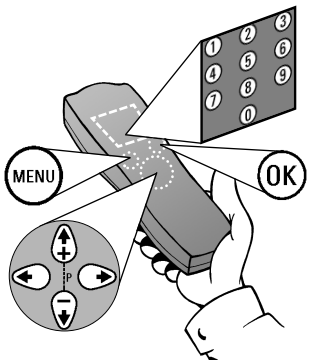


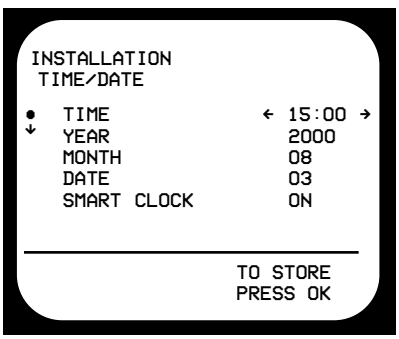


Adapting remote control

If you are using two video recorders which both react to the same remote control commands, you can use this function to change remote control and video recorder to other commands.

1. During playback press the **MENU** button on the remote control. The on-screen menu appears
2. Use ↓P- or ↑P+ to select the option "SPECIAL SETTINGS" and confirm with →
3. Use ↓P- or ↑P+ to select the option "VCR 1 OR 2", use → or ← to select "VCR 1" or "VCR 2" and confirm with **OK**. The video recorder has now been reset to the desired mode
4. Now press, on the remote control, **simultaneously** on the buttons **SELECT** and the number button corresponding to the previously selected setting (thus "1" for "VCR 1" or "2" for "VCR 2")
5. Confirm with **OK**. The remote control has now been reset to the new commands
6. Finish with the **MENU** button





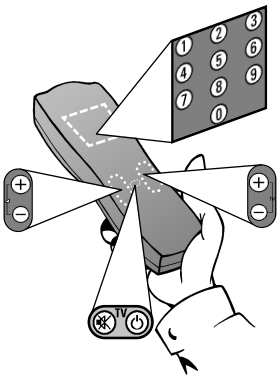
Activate / deactivate "Smart Clock"

With the function "Smart Clock" time and date are automatically taken from the channel stored on "P01" (if this channel transmits TXT/PDC). If time or date are - even after repeated manual settings - not displayed correctly, you should switch this function off.

1. Press the **MENU** button on the remote control. The on-screen menu appears
2. Use ↓ or ↑ to select the option "INSTALLATION" and confirm with →
3. Use ↓ or ↑ to select the option "TIME/DATE" and confirm with →
4. Use ↓ or ↑ to select the option "SMART CLOCK". Use → or ← to switch the function off ("OFF") or on ("ON")
5. Confirm with **OK**. The display will show "STORED"
6. Leave the on-screen menu with **MENU**

Using the TV remote control

With the enclosed multicode remote control you can control the main functions of your TV set. To do this, you must first enter the make of your TV set.



1. Find the make of your TV set from the list below and take note of the corresponding remote control code(s)
2. Hold down the button ◿ - and enter one of the listed codes with the number buttons **0-9**.
3. Now you can control your TV set remotely with the following buttons:

+ ◿ -	(Increase / decrease TV volume)
🔇 / TV	(Switch sound on / off)
TV / ⏻	(Switch TV on / off)
+ TV -	(Next / previous TV programme number)

REMOTE CONTROL CODES

Acura 02
Adyson 05,20
Akai 18,33
Akura 21,25
Alba 02,07,21
Allorgan 28
Amplivision 20
Amstrad 02
Anitech 02
Arcam 19,20
Asuka 21
Audiosonic 15

BPL 26
BSR 28
BTC 21
Basic Line 02,21
Baur 03,33
Beko 35
Blaupunkt 17
Blue Sky 21
Blue Star 26
Bondstec 23
Boots 20
Brandt 15
Britannia 19
Bush 02,07,21,26,28,36

CGE 23
CS Electronics 19
CTC 23
Carrefour 07
Cascade 02
Cimline 02
Clatronic 23,35
Condor 30,35
Contec 02,07,19
Crown 02,35,38
Cybertron 21

Daewoo 02,36
Dainichi 21
Dayton 02
De Graaf 18
Decca 10
Dixi 02
Dual Tec 20

Elite 21,30
Elta 02
Emerson 33

Ferguson 15
Fidelity 19,33
Finlandia 18,32
Finlux 10,13,32
Firstline 02,19,20,23,28,31
Fisher 18,20,35
Formenti 30
Frontech 23,25
Fujitsu 10
Funai 25,28

GEC 10,20
GPM 21
Geloso 02
Genexxa 21
GoldStar 15,20,27
Goodmans 07,10,20,29,36
Gorenje 35
Graetz 33
Granada 10,18,20
Grandin 26
Grundig 17

HCM 02,26
Hanseatic 01,30,33
Hinari 02,07,21
Hisawa 26
Hitachi 05,07,08,13,15,20,22
Huanyu 19,36
Hypson 25,26

ICE 20,25
ICeS 21
ITT 33
Imperial 23,35,38
Inno Hit 10
Interfunk 23,33
Intervision 12,20,25
Isukai 21

JVC 07,09

Kaisui 02,19,20,21,26
Kathrein 01
Kingsley 19
Koyoda 02

Leyco 10,25,28
Lloytron 05
Luxor 33

M Electronic 02,13,15,20,32,36,41
Magnadyne 12,23
Magnafon 12
Manesht 20,25,30
Marantz 01
Matsui 02,04,06,07,10,18,20,28
Memorex 02
Metz 34
Mitsubishi 07,14,16
Mivar 19,27
Multitech 02,12,19

Neckermann 01
Nikkai 05,06,10,19,21,25
Nobliko 12
Nokia 33,41
Normende 15

Oceanic 33
Orion 28,30,31
Osaki 05,10,20,21,25
Oso 21
Osume 05,10
Otake 29
Otto Versand 01,03,07,20,30

Palladium 35,38
Panama 20,25
Panasonic 24,34
Pathe Cinema 19,30
Pausa 02
Perdio 30
Phase 05
Philco 23
Philips 01,36
Pioneer 15
Profex 02,33
Proline 31
Protech 02,12,20,23,25,38

Quelle 03,04,33
Questa 07

Rank Arena 07
Rediffusion 33
Rex 25
Roadstar 02,21,25,38

SEG 07,20,25
SEI 12,28
Saba 15
Saisho 02,04,25
Salora 33
Sambers 12
Samsung 01,02,20,25,27,35
Sandra 19
Sanyo 04,07,10,18
Schaub Lorenz 33
Schneider 21,23,37
Sei-Sinudyne 03
Sentra 06
Sharp 07,11
Shorai 28
Siarem 12
Siemens 17
Silver 07
Sinudyne 12,28
Solavox 05
Sonitron 18
Sonoko 02
Sonolor 18
Sony 03,04,07
Soundwave 38
Standard 02,20,21
Sunkai 28,31
Susumu 21

Tandy 10,20,21
Tashiko 07,20
Tatung 10,20
Tec 20,23
Technema 30
Technics 24
Telefunken 15
Telemeister 30
Teletech 02
Teleton 20
Tensai 21,28,29,30
Texet 19,21
Thomson 15
Thorn 06,10,33
Tomashi 26
Toshiba 06,07

Uher 30
Ultravox 12
Universum 13,25,32,35

Videosat 23
Videotechnic 20
Visa 02
Vision 30

Waltham 20
Watson 30
Watt Radio 12
Wega 07
White Westinghouse 19,30

Yoko 20,25

If the codes corresponding to your set do not succeed, please try entering one of the other remote control codes listed.

11 Suppressing interference

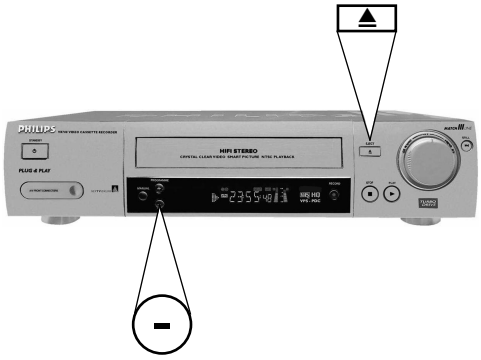
Optimizing the modulator

If the TV set and the video recorder are only connected with an aerial cable - rather than with an additional scart cable - it may happen that in certain reception locations the modulator frequency of the video recorder is occupied by a TV channel. As soon as the video recorder is switched on, the reception quality of the TV picture deteriorates. The following steps will show you how to overcome this problem.

What is a modulator?

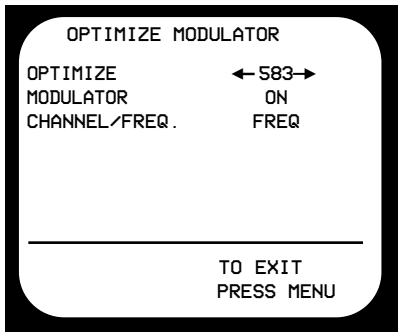
The purpose of this electronic assembly inside your video recorder is to pass on the picture and sound information read in from the video tape via an aerial cable like a TV signal to the TV set. The modulator frequency determines the frequency range in which these signals are transmitted.

TIP



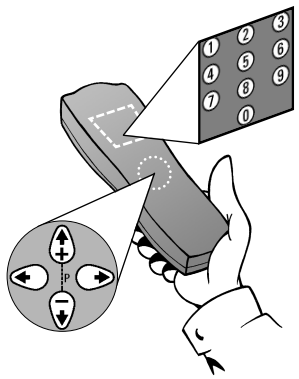
1. Switch the video recorder on and make sure there is no cassette in the video recorder

2. Press simultaneously the **EJECT** button ⏏ on the front of the video recorder and the button **PROGRAMME -** until the display shows the modulator frequency (e.g. "M583" or "CH35").



3. The display shows "M ON". The video recorder will now transmit a test image on this frequency

4. Use **P-** or **P+** to select the option "OPTIMIZE" and enter a new frequency with the number buttons **0-9**

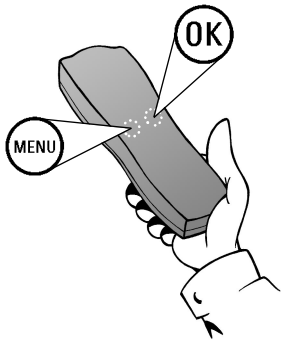


Which modulator frequency should I enter?

You can also make the video recorder search automatically for an appropriate frequency. To do so, simply hold down the button →. As soon as a free frequency has been found, it will be shown in the display.

PROBLEM

5. Tune the programme number of your TV set allocated for video use to the new modulator frequency until you see the test image sharply and in colour



6 Confirm the new modulator frequency with **OK**.

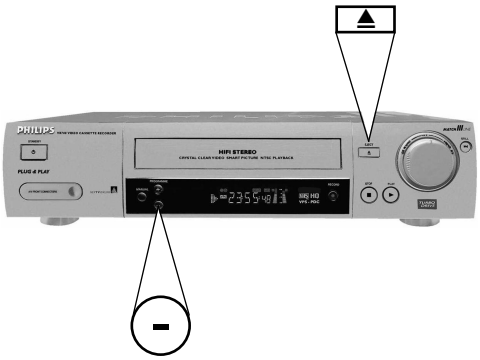
7 Leave the on-screen menu with the **MENU** button

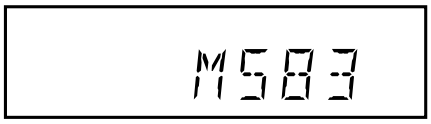
Switching off the modulator

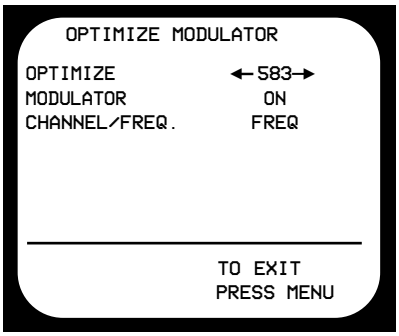
If you have connected the video recorder to the TV set with a scart cable, you can switch off the modulator when there is interference with the picture or sound (see below).

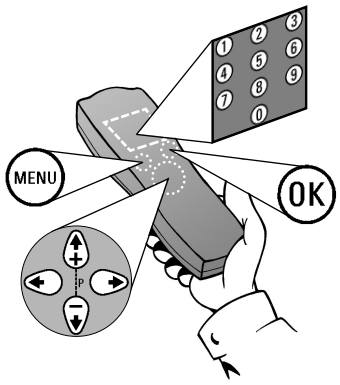
Switching the modulator on / off

If picture and sound interference cannot be removed by optimising the modulator, the integral modulator can be switched off. Warning: this is only possible if you have connected the video recorder to the TV set with a scart cable. It is not possible to operate with the modulator switched off without a scart cable.









1 Switch the video recorder on and make sure there is no cassette in the video recorder

2 Press simultaneously the **EJECT** button ▲ on the front of the video recorder and the button **PROGRAMME -** until the display shows the modulator frequency (e.g. "M583" or "CH35")

3 The display shows "M ON". The video recorder will now transmit a test image on this frequency

4 Use ↓**P-** or ↑**P+** to select the option "MODULATOR"

5 Use → or ← to select the setting "ON" (Modulator on) or "OFF" (Modulator off)

6 Confirm with **OK**. The screen will show the message "STORED". The display shows "M OFF"

7 Leave the on-screen menu with the **MENU** button

12 Before you call an engineer

PROBLEM	POSSIBLE CAUSE / SOLUTION
Set no longer reacts when buttons are pressed	✔ The power supply has been interrupted / failed ✔ A programmed recording is running. Interrupt with the Standby button ⏻ ✔ Child lock is activated: Switch this function off ✔ Technical interference: Remove the mains plug from the socket and reinsert it
The set is still not reacting, the display shows e.g. "E 1 0 0"	✔ Remove the mains plug from the socket, hold down the Standby button ⏻ on the front of the video recorder and reinsert the mains plug. When "--:--" or "E 1" appears in the display you can release ⏻. Warning: All data memories of the set (TV channel, time, timer) have been deleted.
Cassette is jammed in video recorder	✔ Do not use force! Briefly remove the mains plug and then reinsert it
Remote control does not work	✔ Aim the end of the remote control at the display of the video recorder ✔ Remove the batteries from the remote control and wait a few seconds before replacing them ✔ Batteries weak or flat: Change the batteries
No playback from video recorder	✔ No recording on the cassette ✔ Select the TV programme number allocated to video operation ✔ Check that the TV channel number allocated to video operation is correct ✔ Cable connection loose/missing: Check the connections
Poor quality playback from video recorder	✔ Check the TV to make sure that the programme number allocated to video operation is correct ✔ Cassette worn/faulty ✔ Tracking not correctly adjusted: Carry out the "Optimizing tracking" function
No recording possible	✔ TV channel not stored or wrongly selected ✔ Cassette with erase protection inserted
Programmed recording not working	✔ Storage position incorrectly/incompletely programmed ✔ Time/date not set correctly ✔ Cassette with erase protection inserted
Picture and/or sound interference in TV reception	✔ Optimize the modulator or switch it off (when using a scart cable) ✔ Check the aerial cable connection
TV reception still not perfect	✔ The Department of Trade and Industry operates a specialist service to help TV licence holders improve reception of BBC and ITC programmes and to prevent interference. If your dealer cannot help, ask at a main Post Office for the booklet "How to improve Television and Radio Reception".

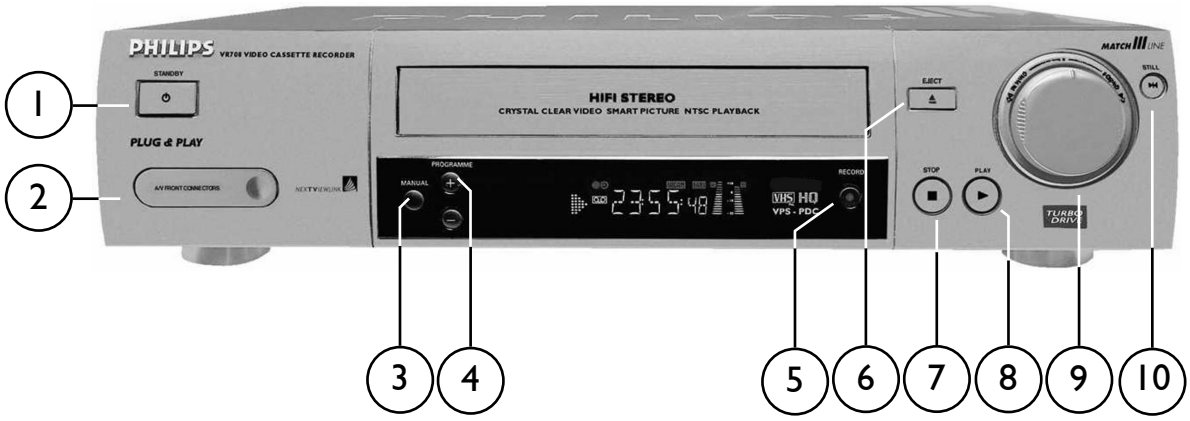
TECHNICAL DATA

Dimensions in cm (W/H/D):	43,5/9,3/29,0
Power consumption	18 W
Energy consumption (Low Power Standby)	< 4W
Mains voltage:	198-264 V / 50 Hz
Number of video heads:	4
Number of audio heads:	1 linear, 2 FM
Rewind / forward wind speed:	approx. 90 seconds (E180 cassette)
Recording/playback speed (E-240 cassette):	SP (Standard Play) 4 hours, LP (Long Play) 8 hours

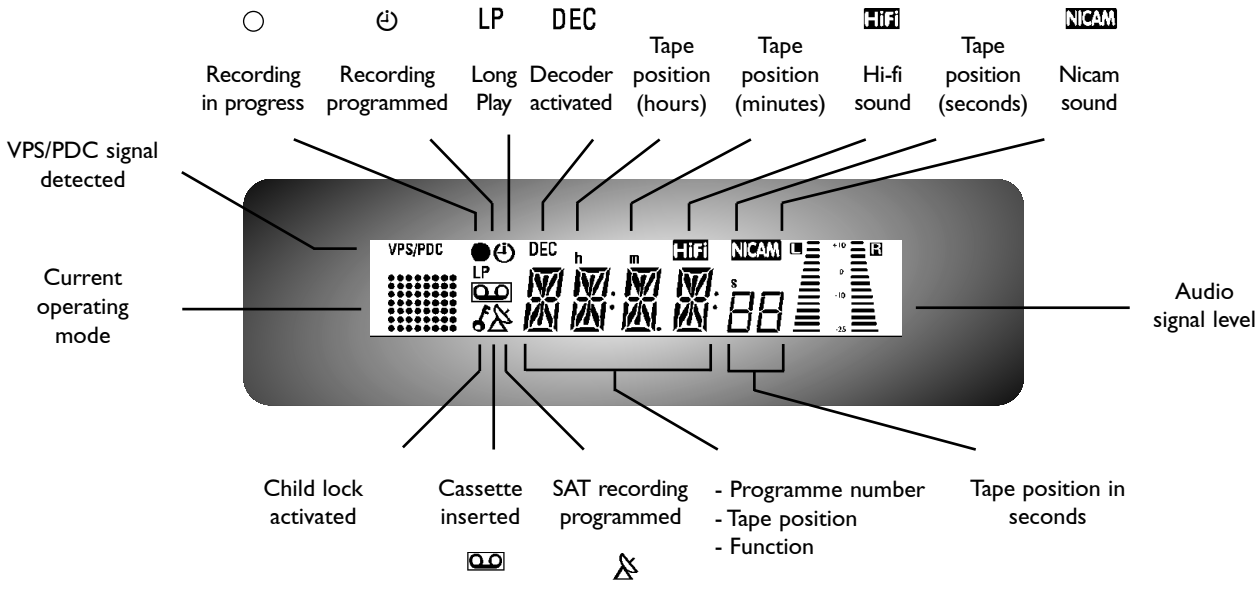
Notes

Notes

Video recorder / display



1 STANDBY/ON ⏻	➤ Switch set on/off
	➤ Interrupt function
	➤ Interrupt programmed recording
2 AUDIO/VIDEO IN	➤ Connecting the camcorder or video recorder (Programme number "E3")
3 MANUAL	➤ Manual mute
4 PROGRAMME - / +	➤ Select previous/next programme nummer/menu point
5 RECORD ●	➤ Record
6 EJECT ⏏	➤ Eject tape
7 STOP ■	➤ Stop tape
8 PLAY ▶	➤ Play back recorded cassette
9 ◁◀	➤ In stop or standby mode: Rewind tape
	➤ During playback: Reverse picture search
▶▷	➤ In stop or standby mode: Forward wind tape
	➤ During playback: Forward picture search
10 STILL ▶I◀	➤ Still picture / slow motion



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